

Blots, as shown below, were cut into slices before incubation with primary antibodies. The Precision Plus Protein Dual Color Standards, Cat#161-0374, from Bio-Rad was used as the protein marker.

Figure 1a

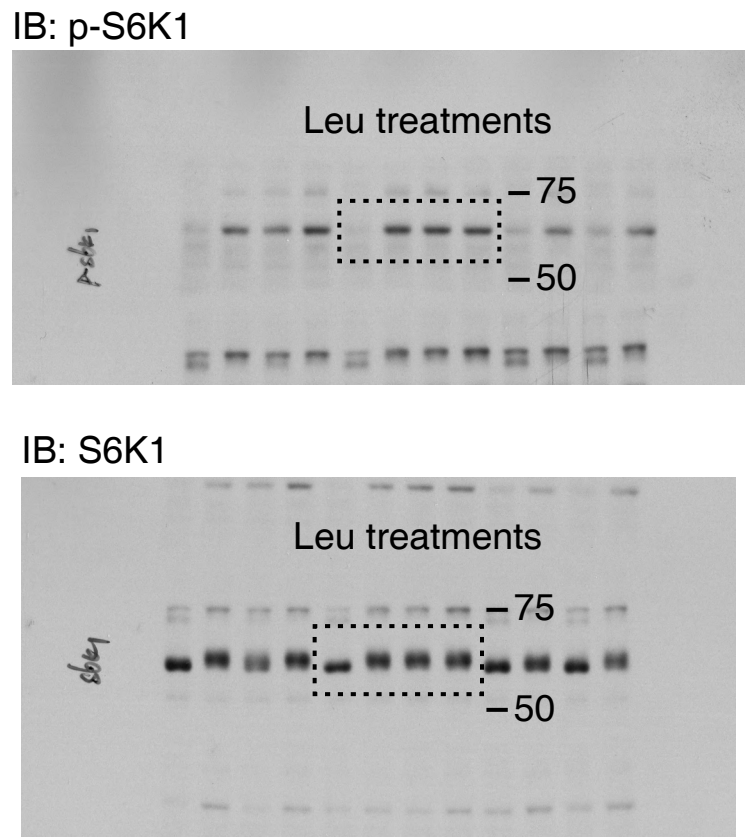


Figure 1b

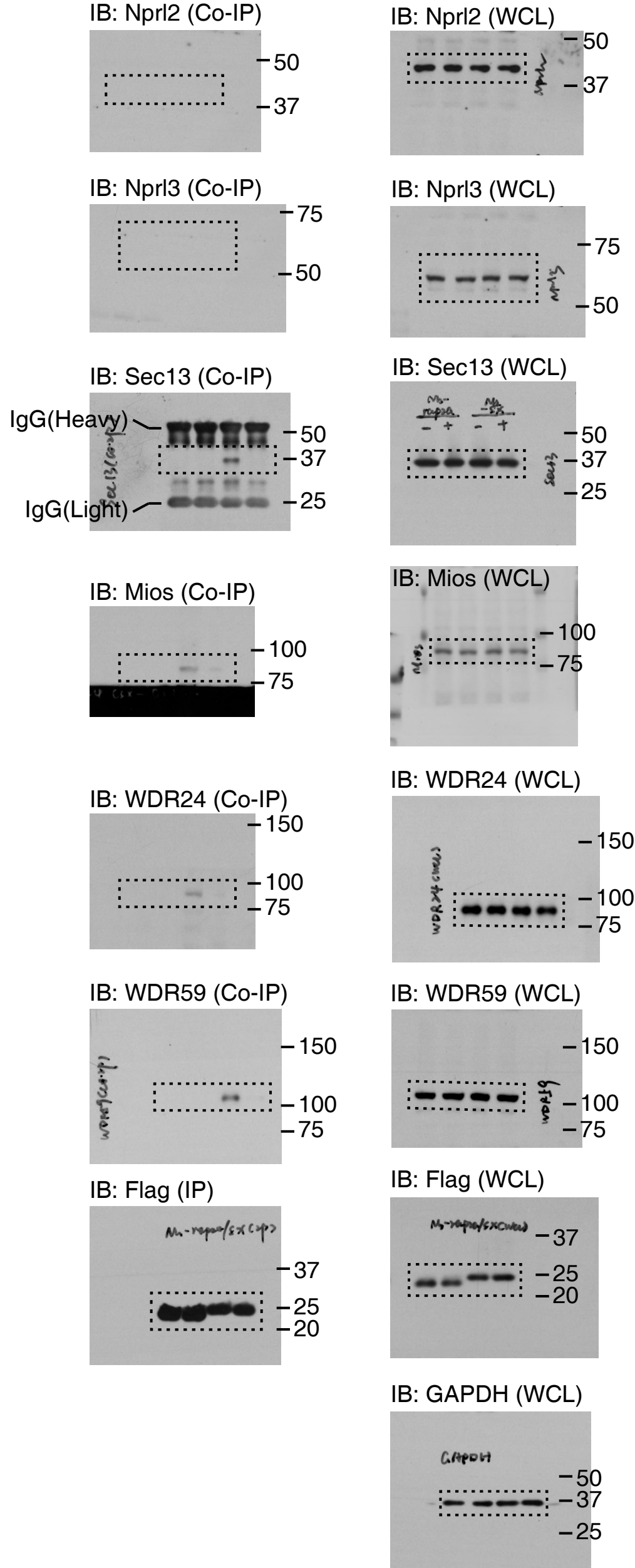


Figure 1c

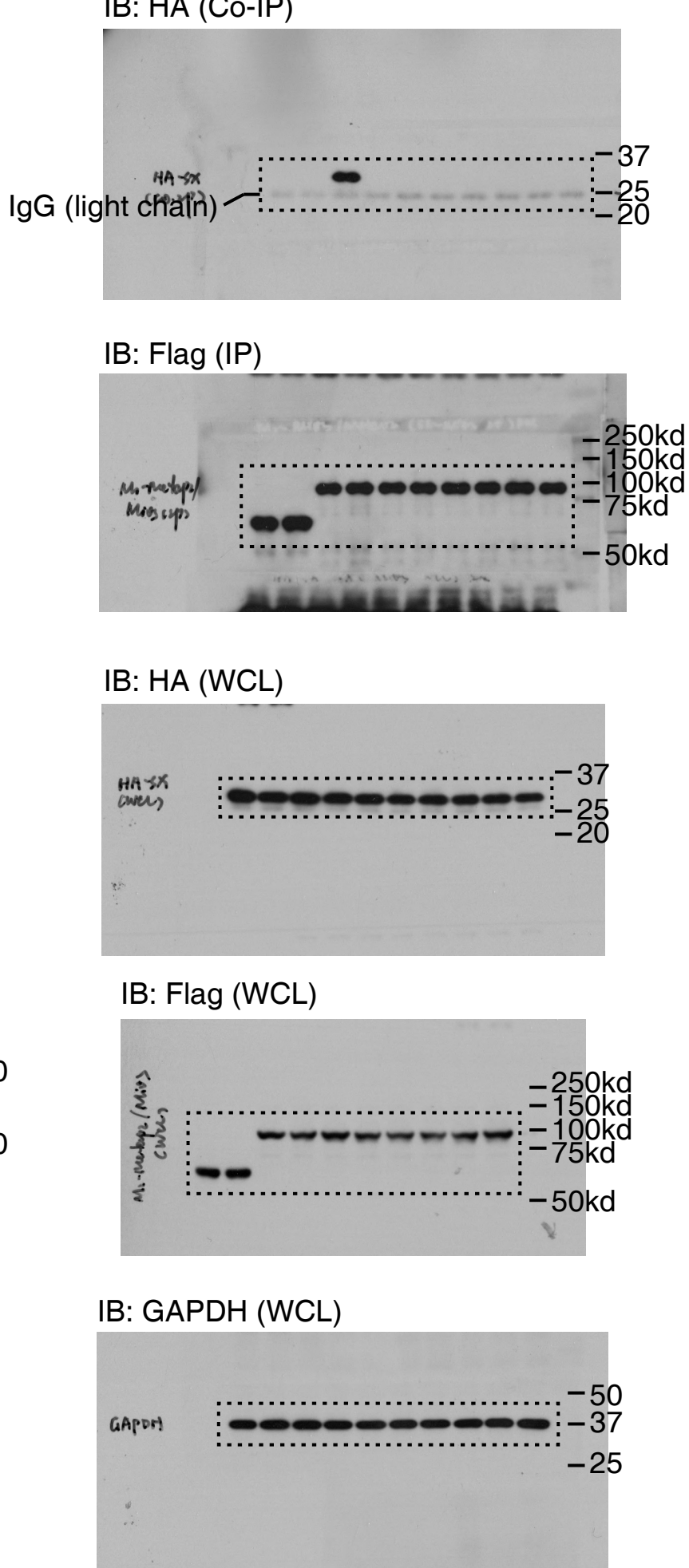


Figure 1d

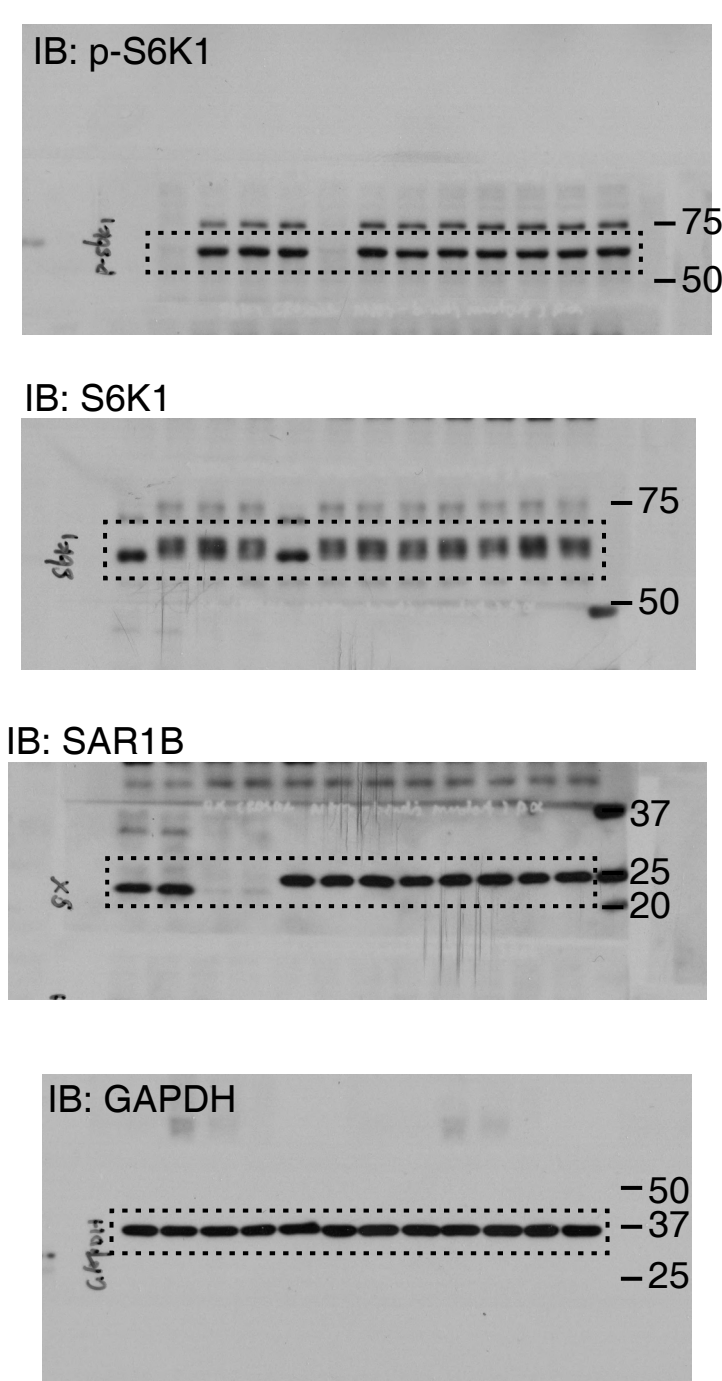
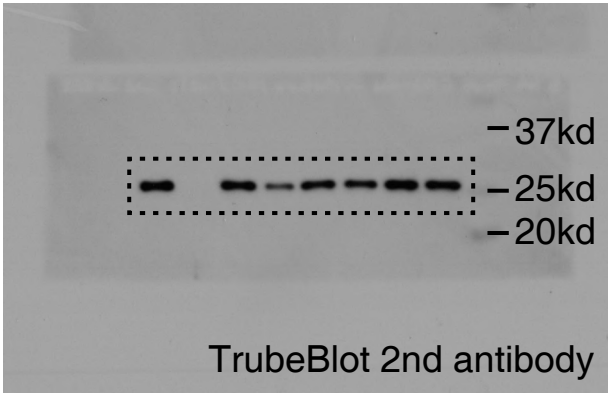
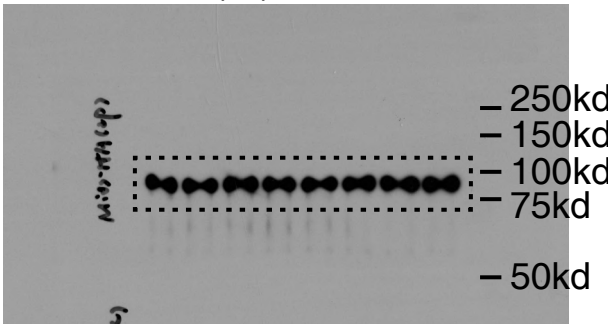


Figure 2c

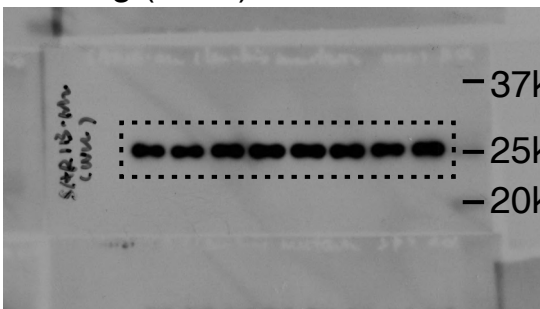
IB: Flag (Co-IP)



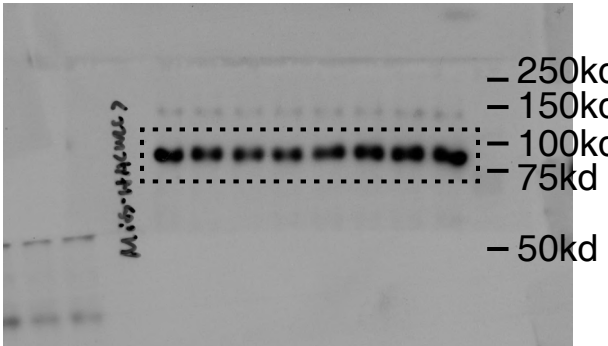
IB: Mios-HA (IP)



IB: Flag (WCL)



IB: Mios-HA (WCL)



IB: GAPDH (WCL)

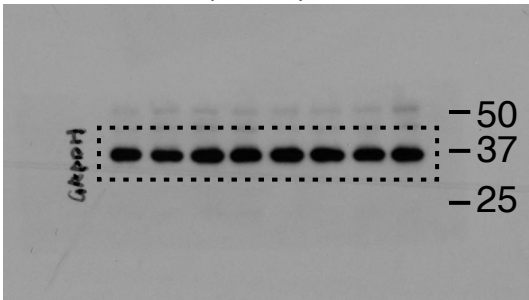
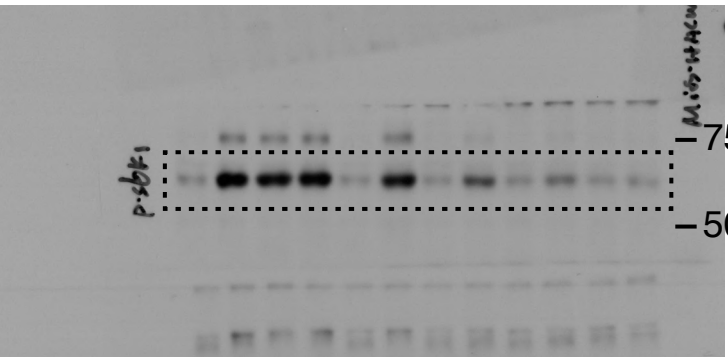
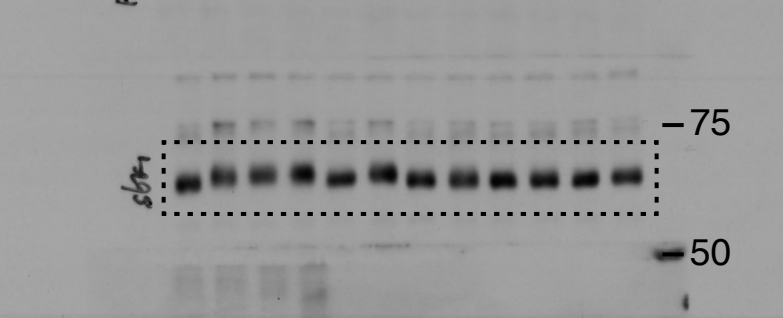


Figure 2d

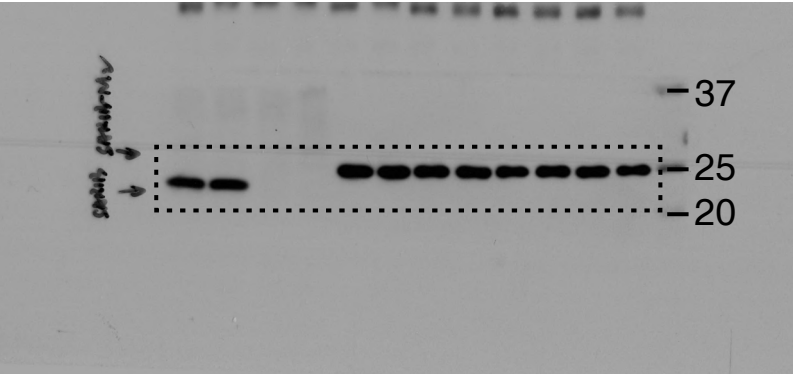
IB: p-S6K1



IB: S6K1



IB: SAR1B



IB: GAPDH

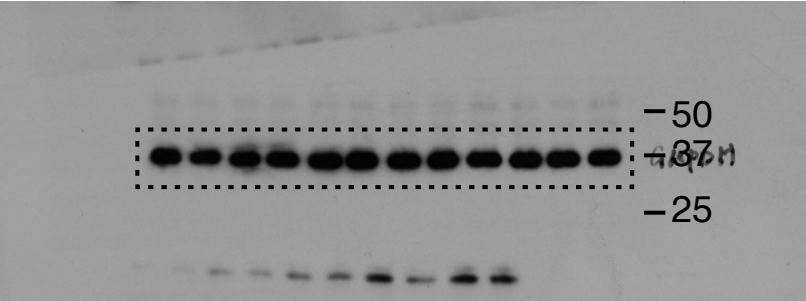
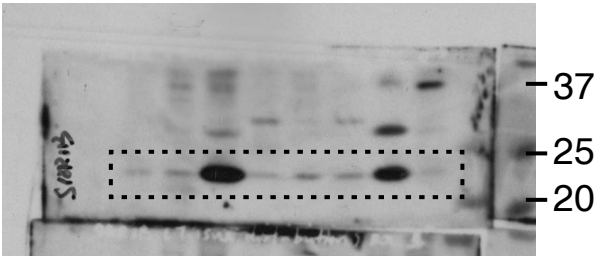
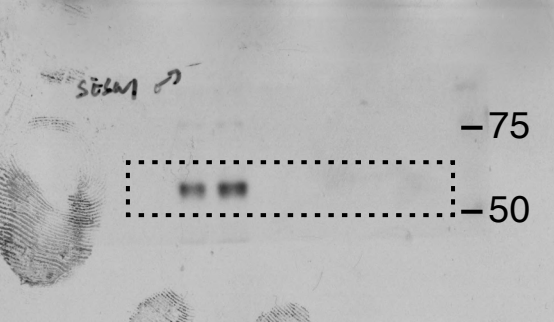


Figure 2e

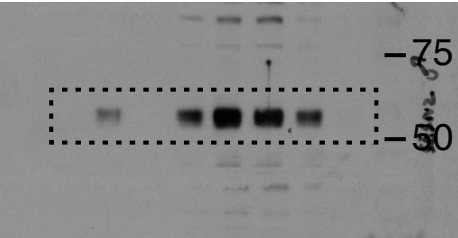
IB: SAR1B



IB: Sestrin1



IB: Sestrin2



IB: Sestrin3



IB: α-Tubulin

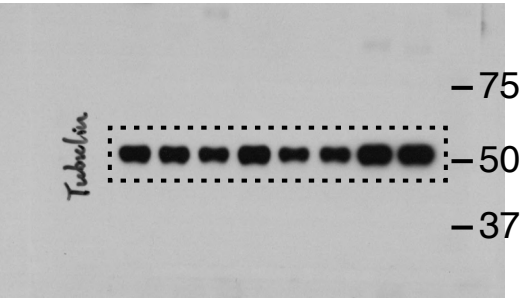
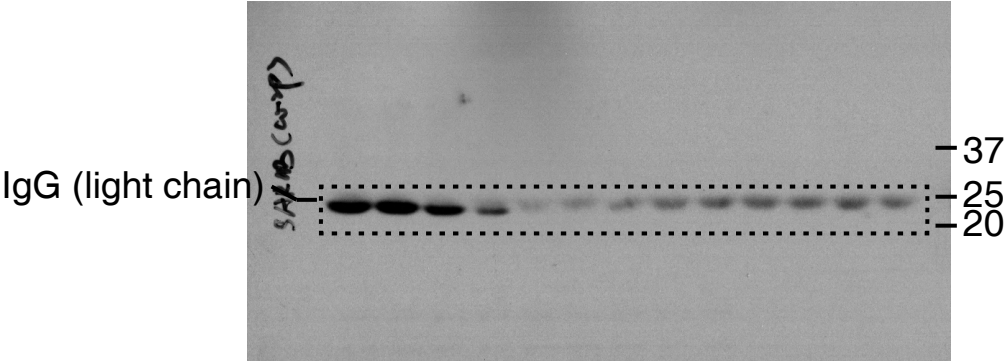
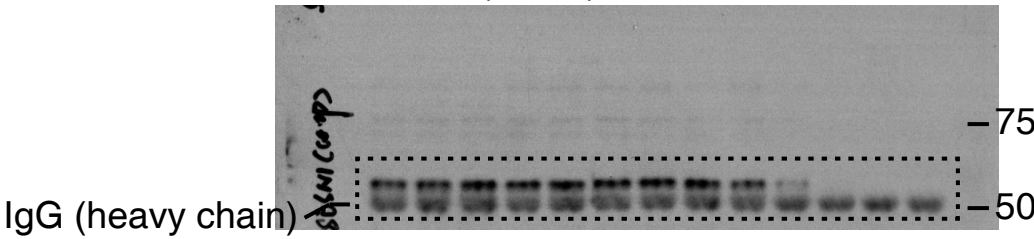


Figure 2f

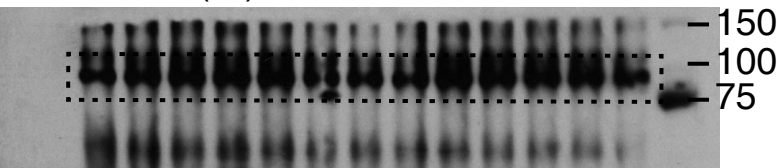
IB: SAR1B (Co-IP)



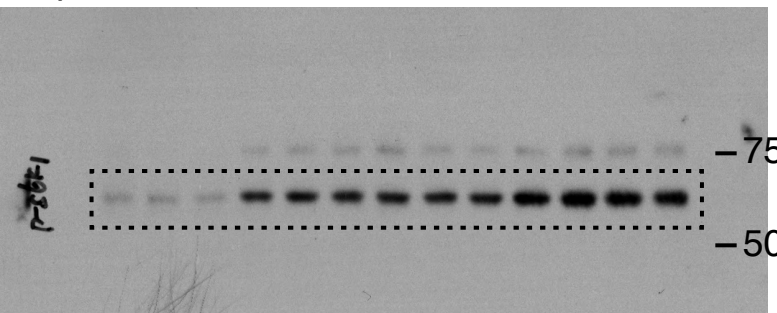
IB: Sestrin1 (Co-IP)



IB: WDR24 (IP)



IB: p-S6K1



IB: β-Actin

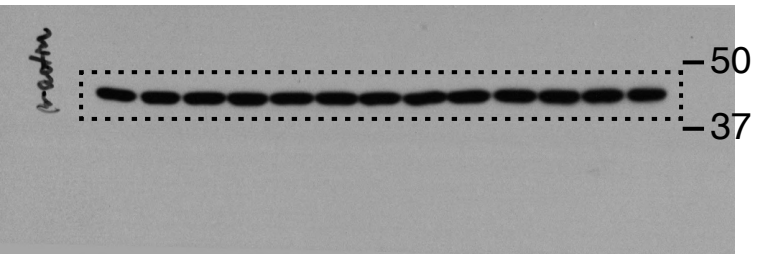


Figure 3a

IB: p-RSKS-1

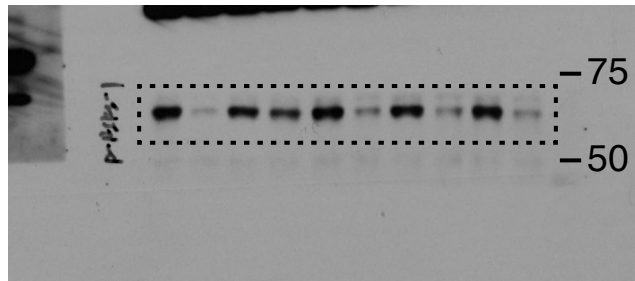


Figure 3b

IB: p-RSKS-1

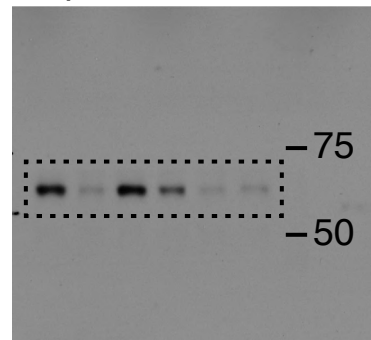
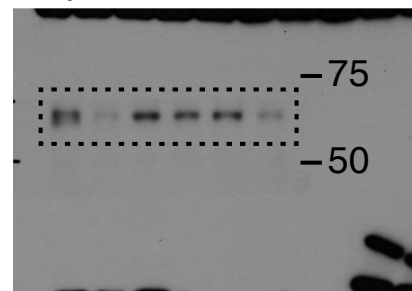
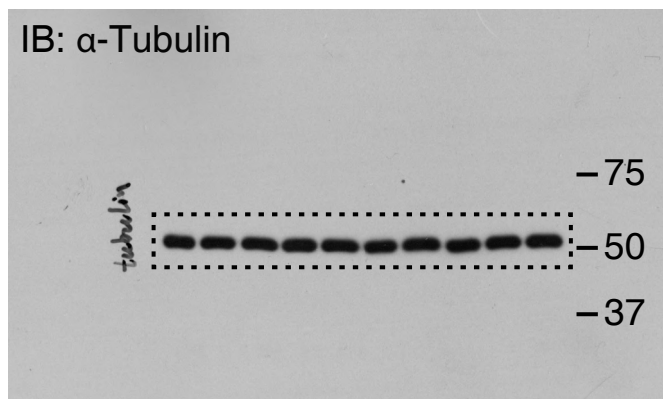


Figure 3c

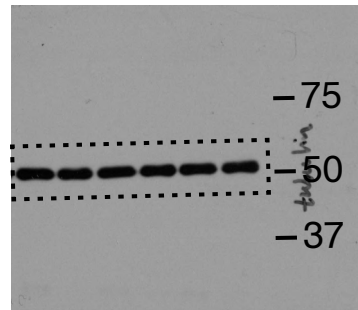
IB: p-RSKS-1



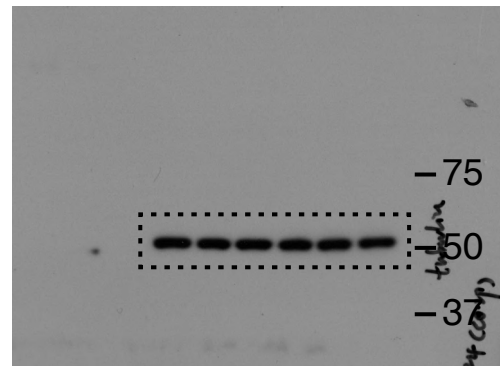
IB: α -Tubulin



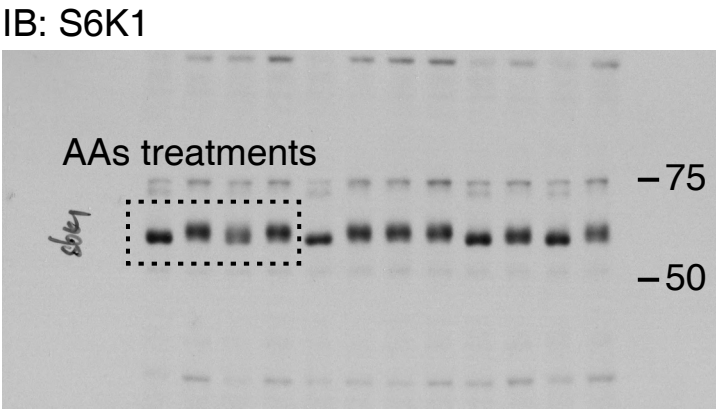
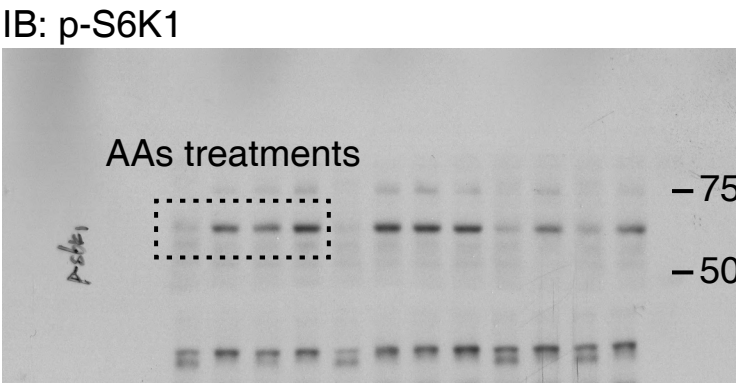
IB: α -Tubulin



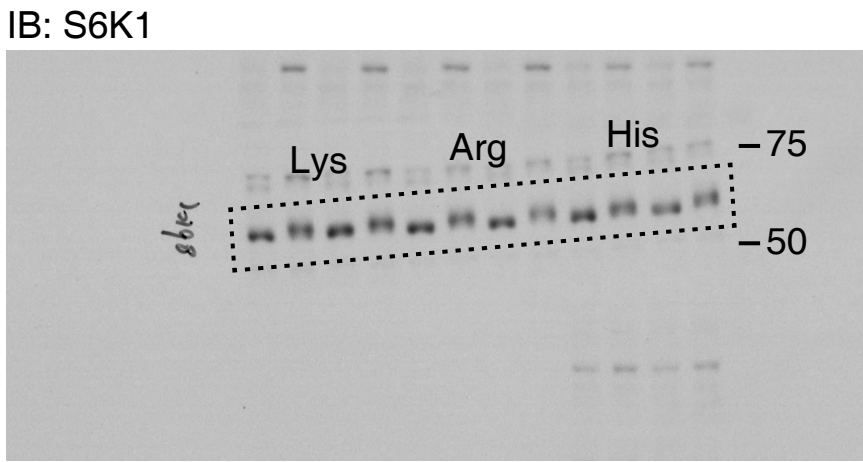
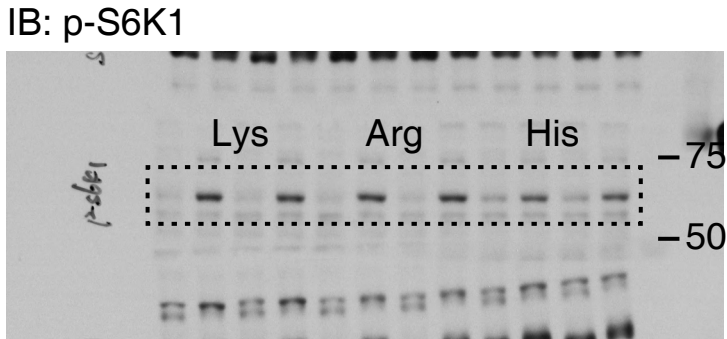
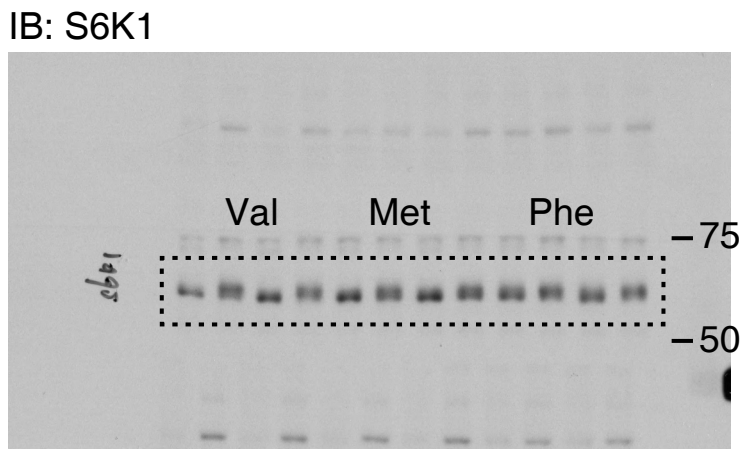
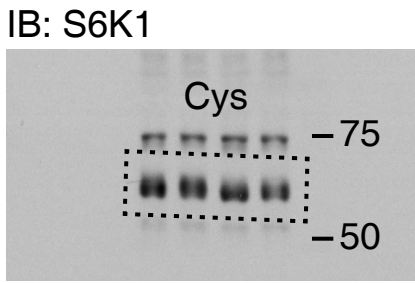
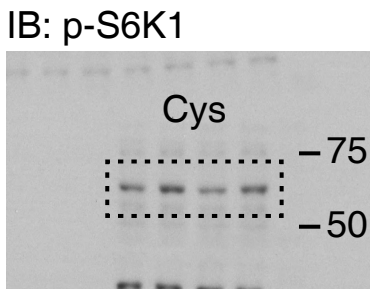
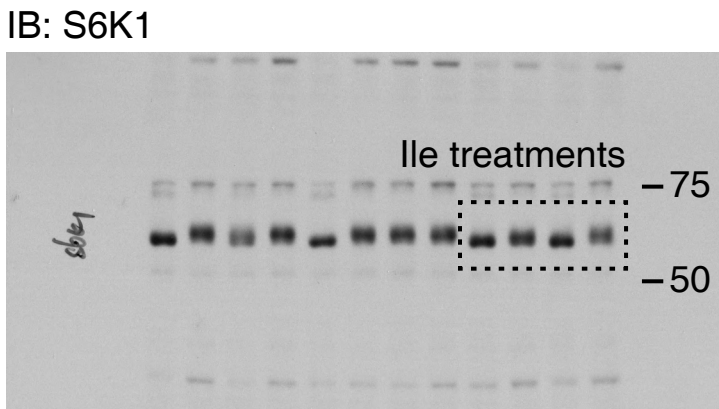
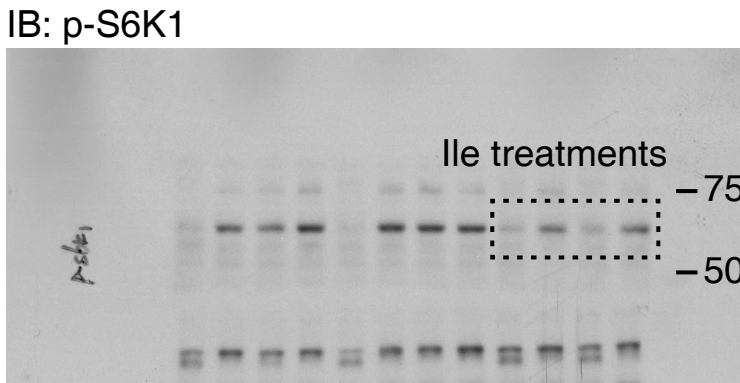
IB: α -Tubulin



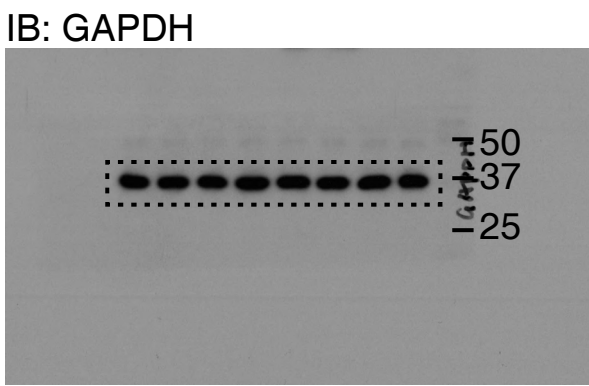
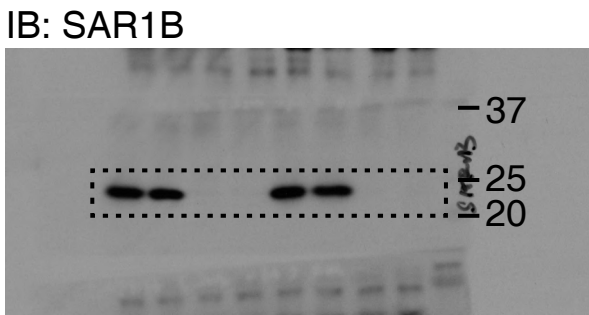
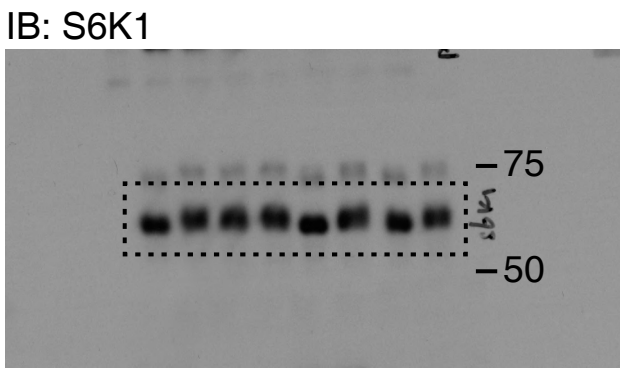
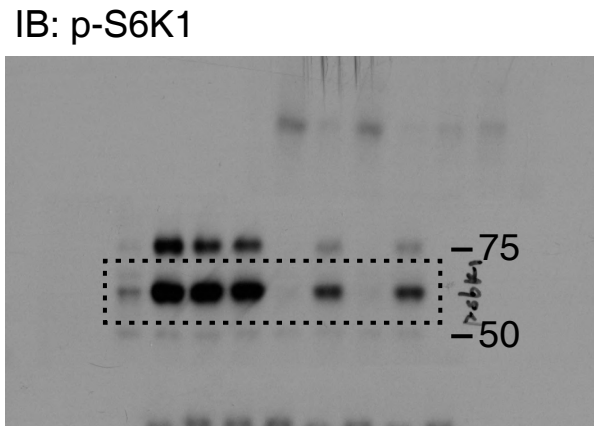
Extended Data Figure 1b



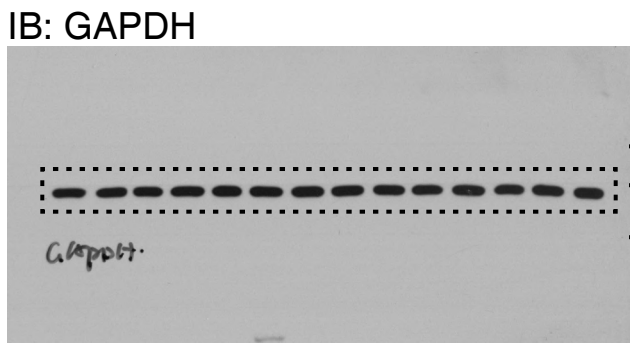
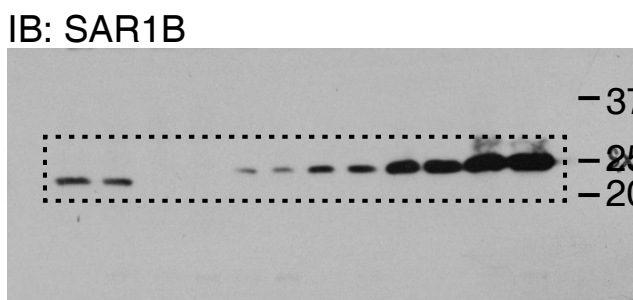
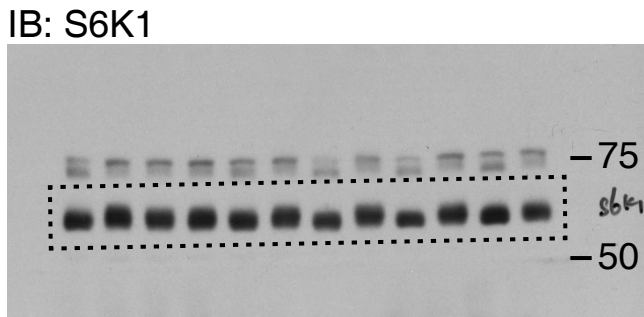
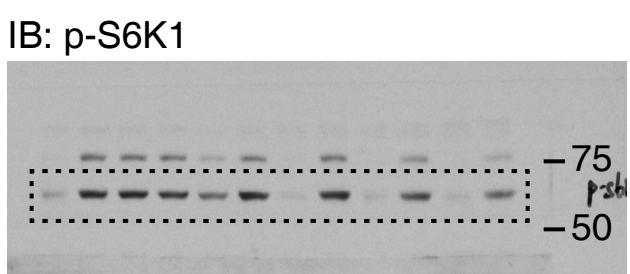
Extended Data Figure 1c



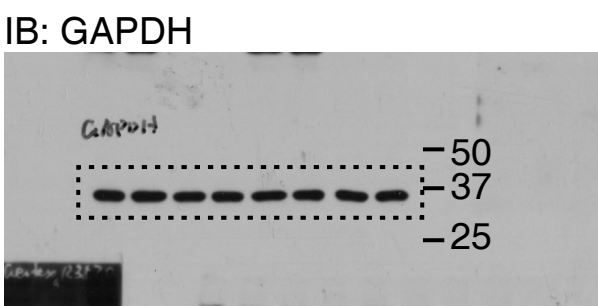
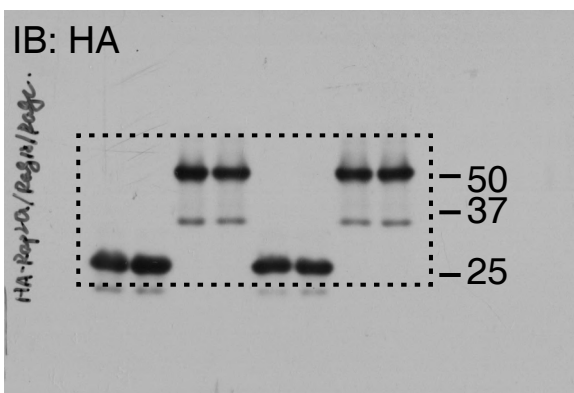
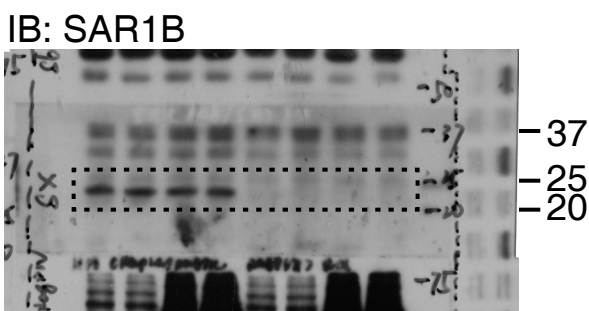
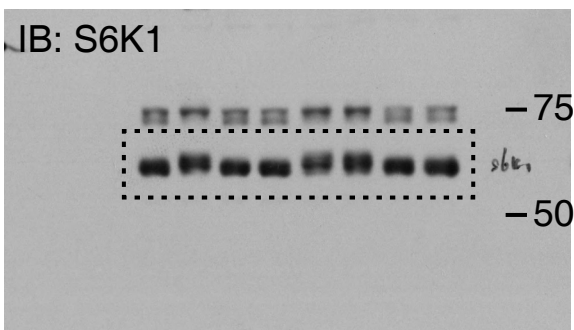
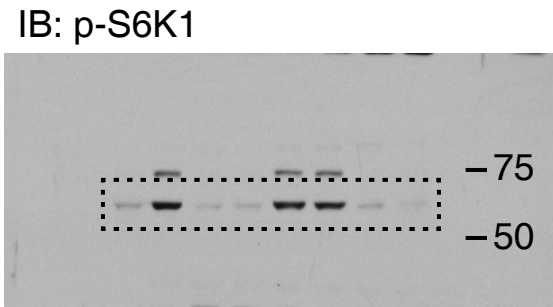
Extended Data Figure 1d



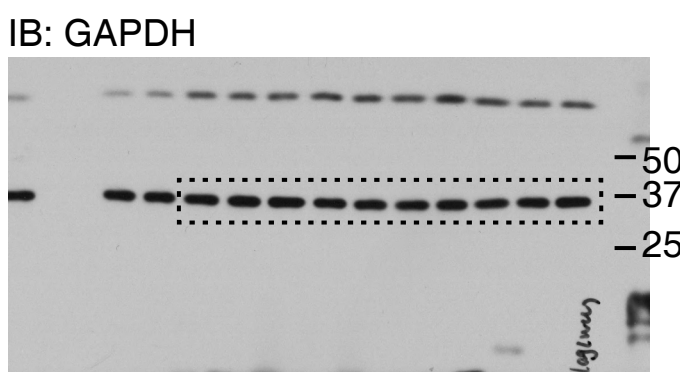
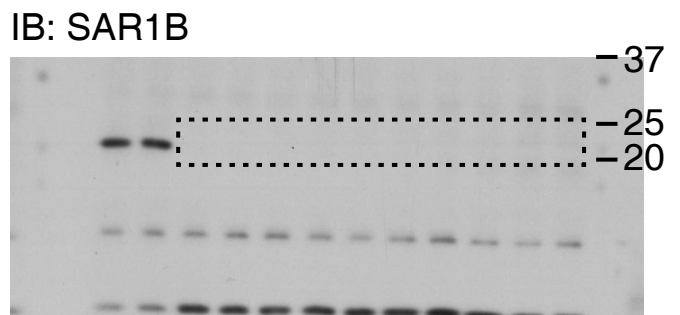
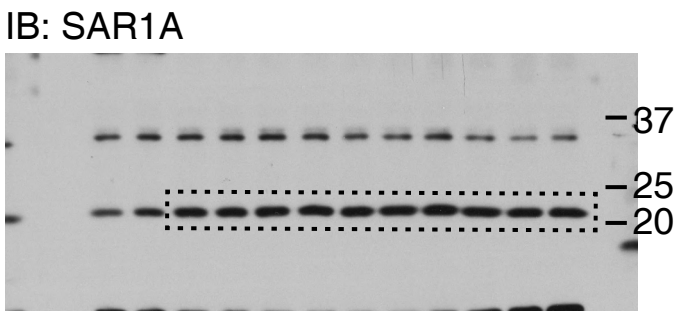
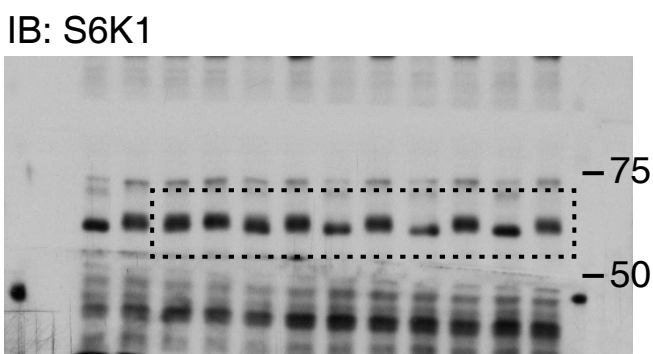
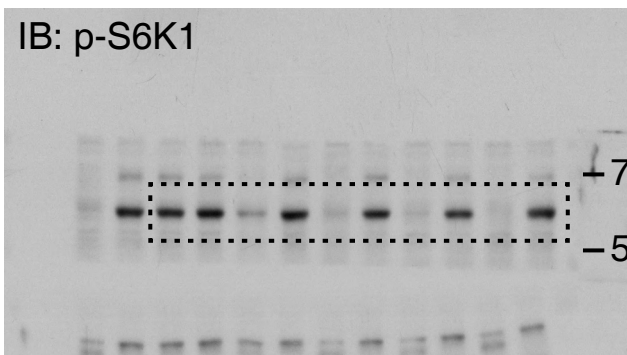
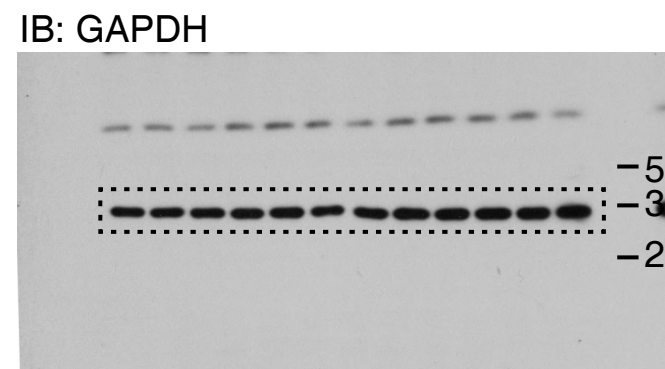
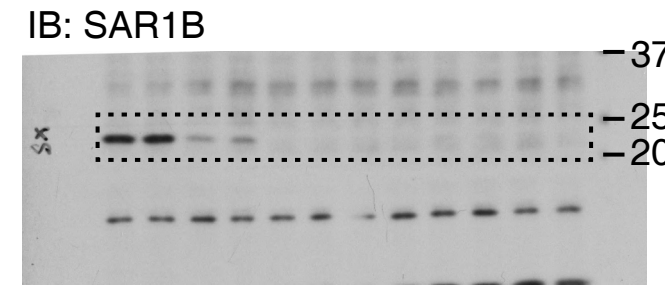
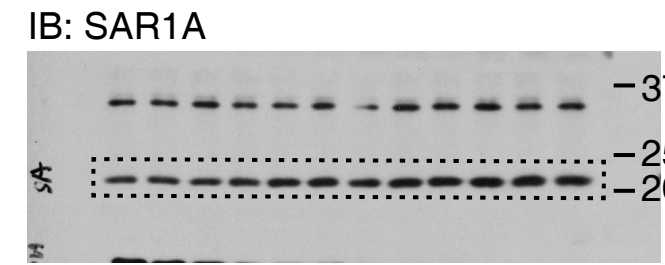
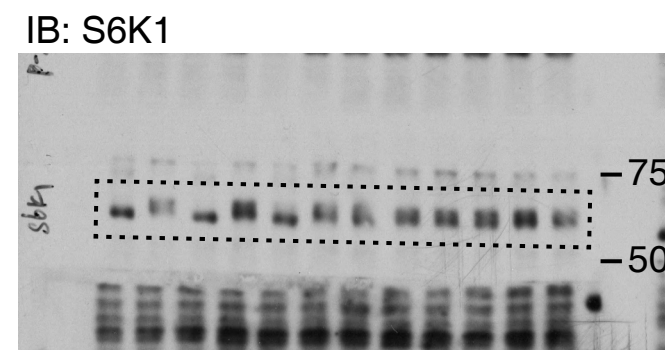
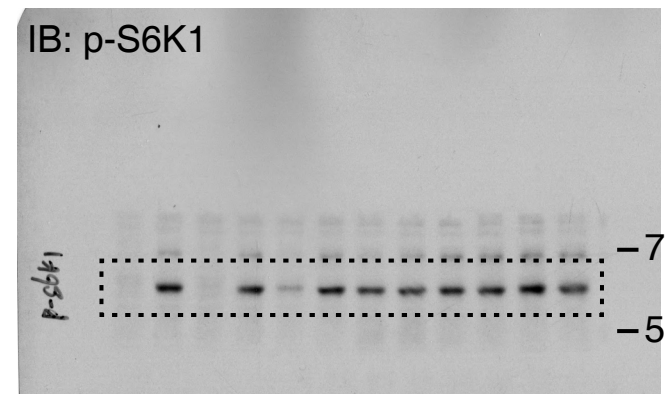
Extended Data Figure 1g



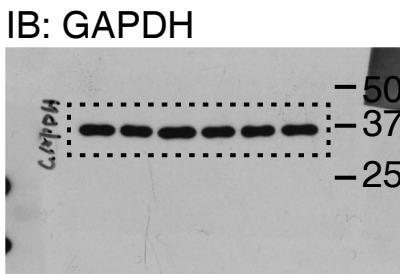
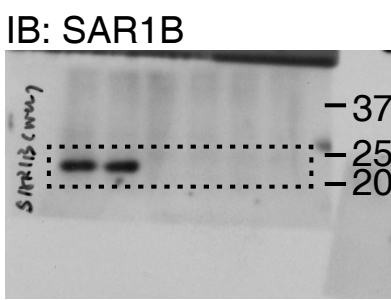
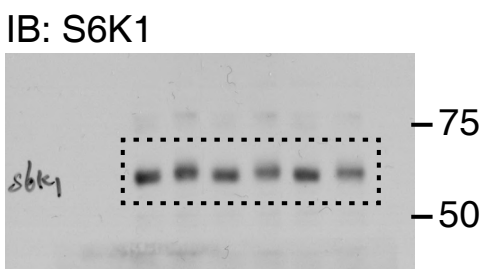
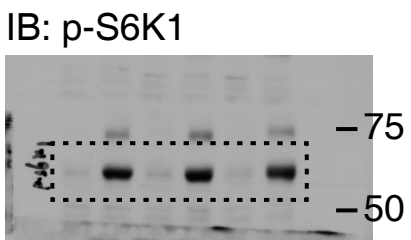
Extended Data Figure 1h



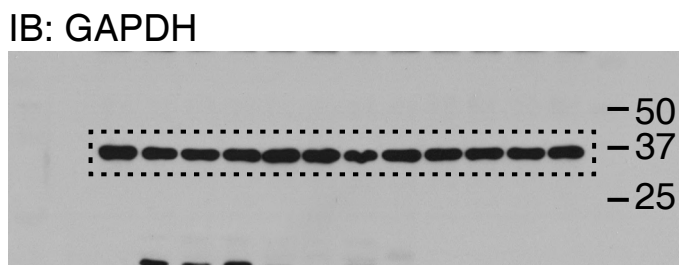
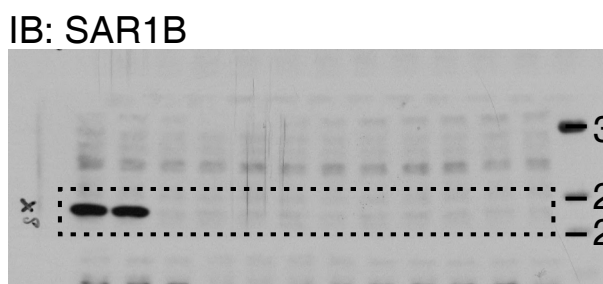
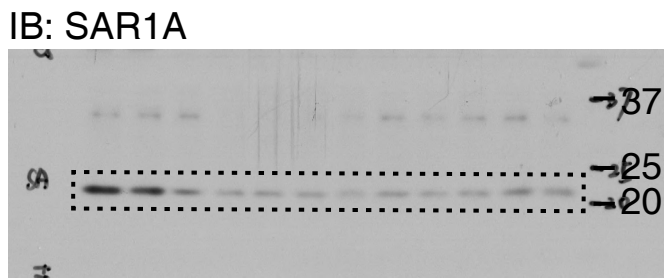
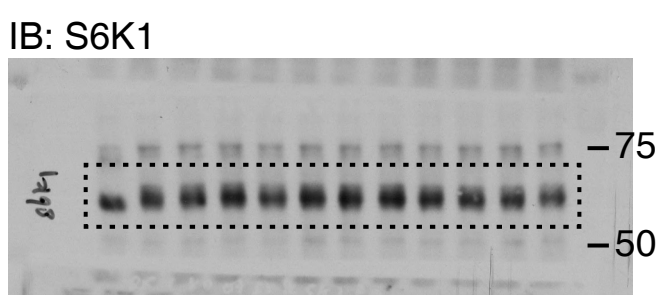
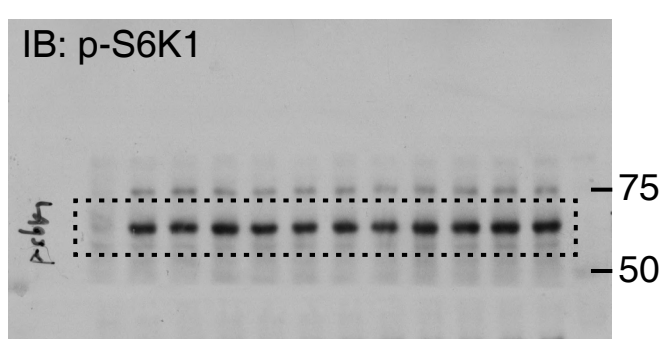
Extended Data Figure 1j



Extended Data Figure 1i

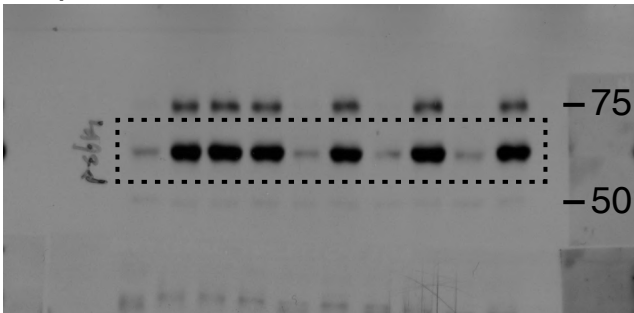


Extended Data Figure 1o

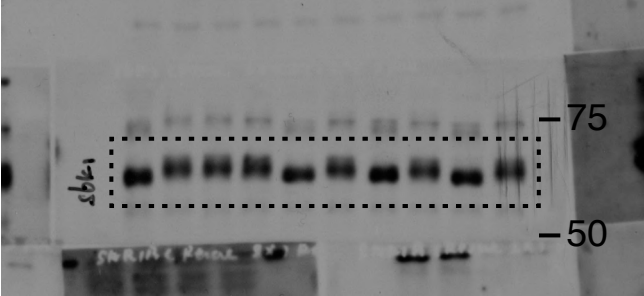


Extended Data Figure 2a

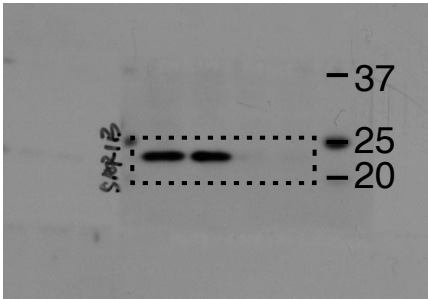
IB: p-S6K1



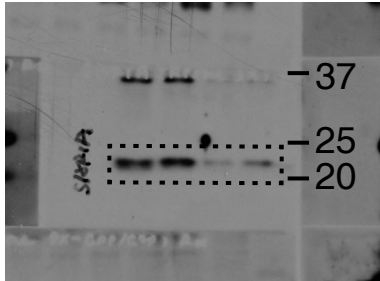
IB: S6K1



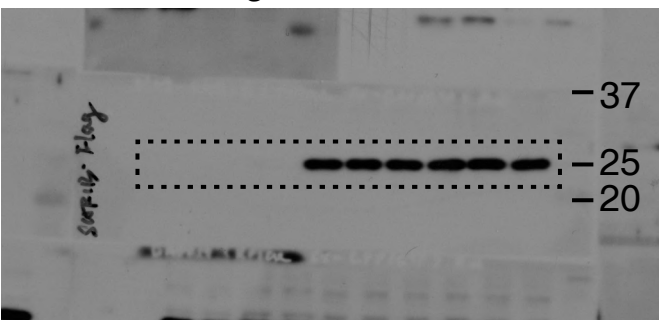
IB: SAR1B



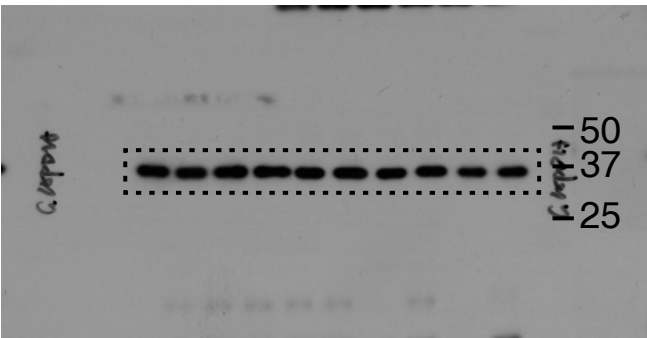
IB: SAR1A



IB: SAR1B-Flag

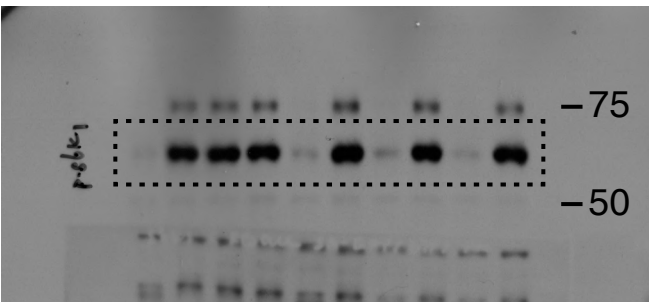


IB: GAPDH

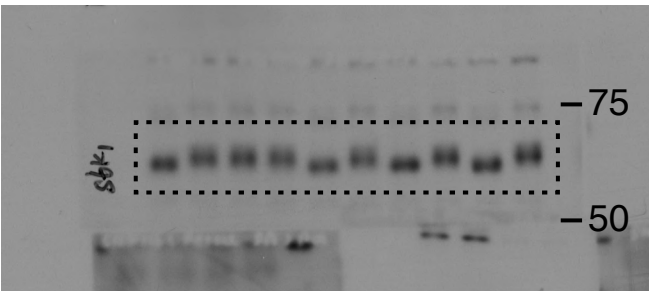


Extended Data Figure 2b

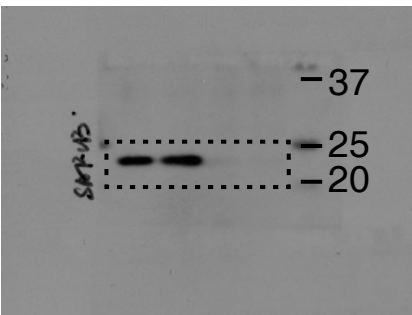
IB: p-S6K1



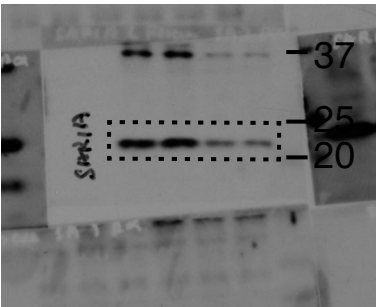
IB: S6K1



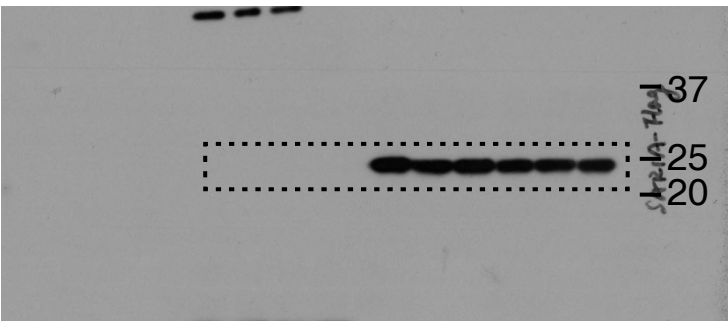
IB: SAR1B



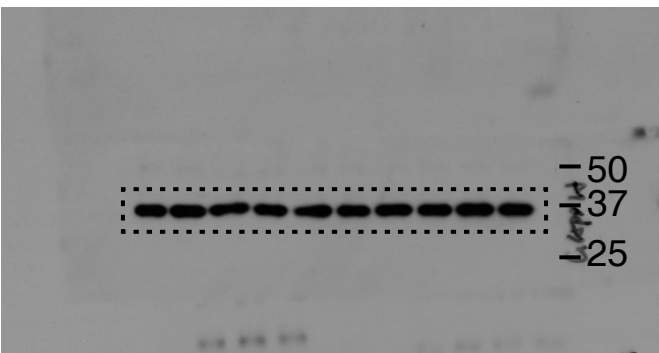
IB: SAR1A



IB: SAR1A-Flag

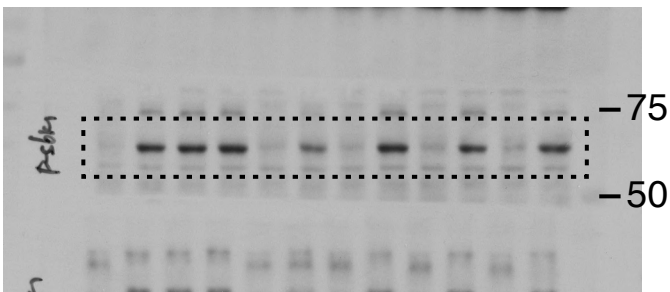


IB: GAPDH

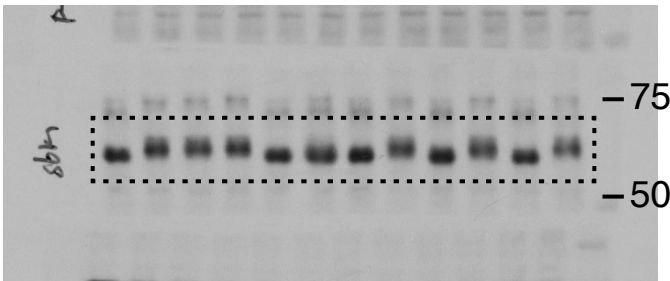


Extended Data Figure 2d

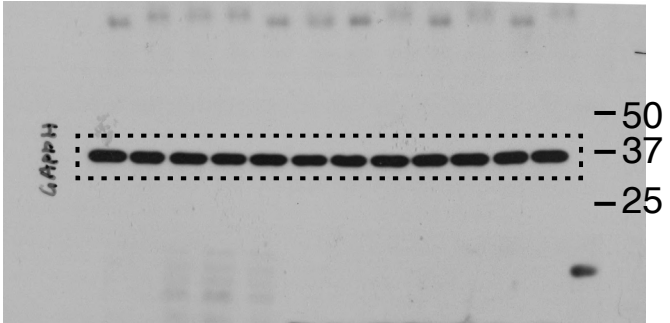
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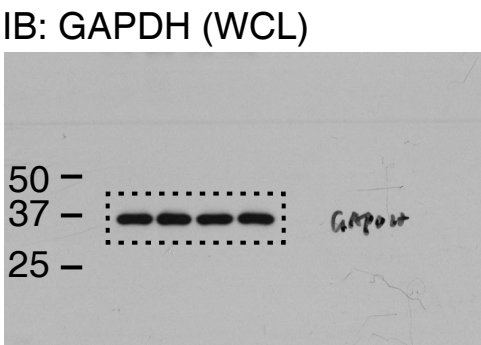
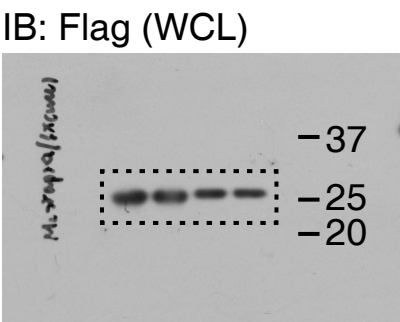
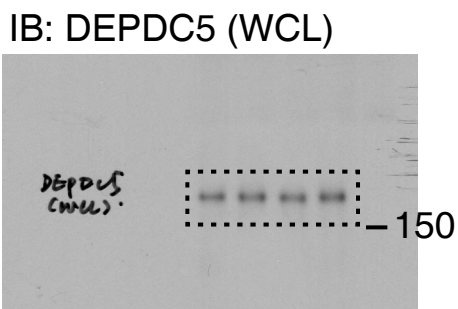
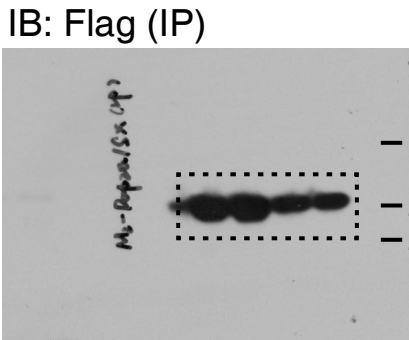
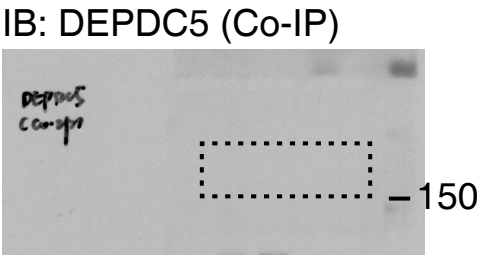
IB: S6K1



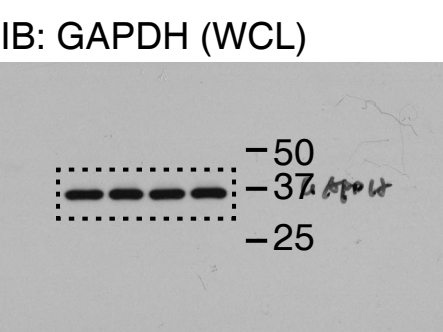
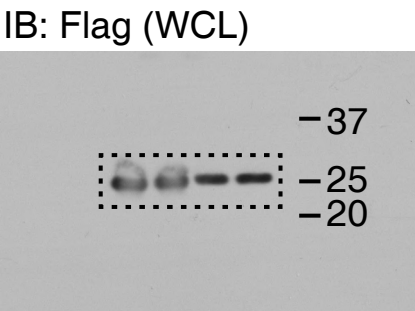
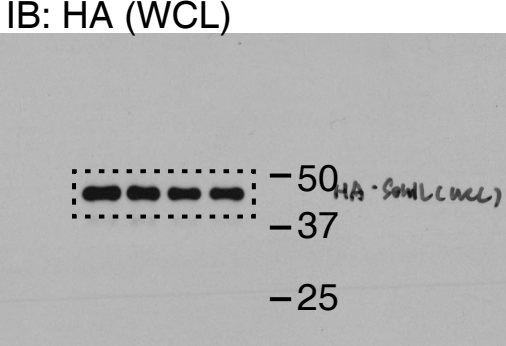
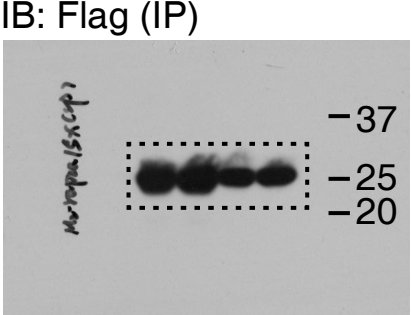
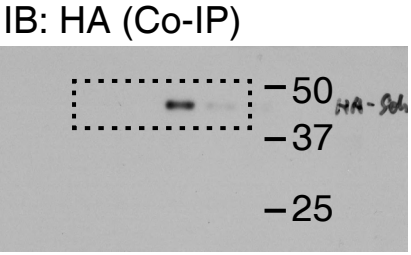
IB: GAPDH



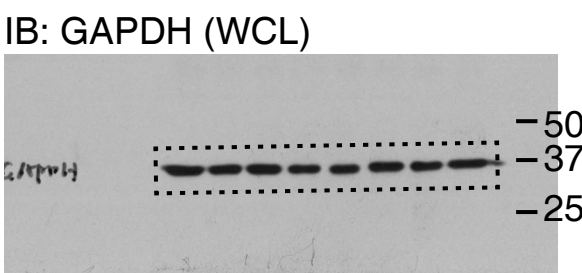
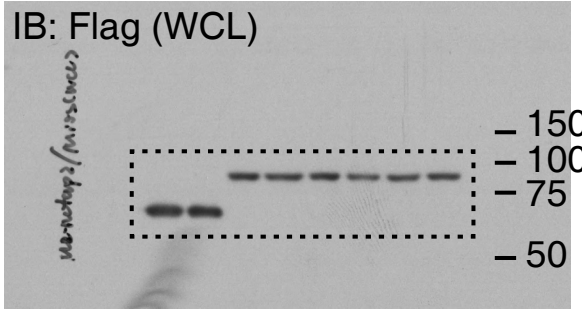
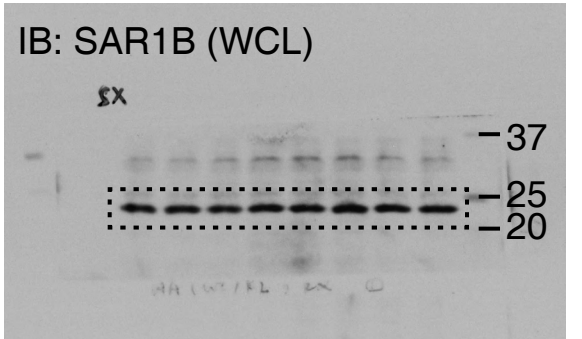
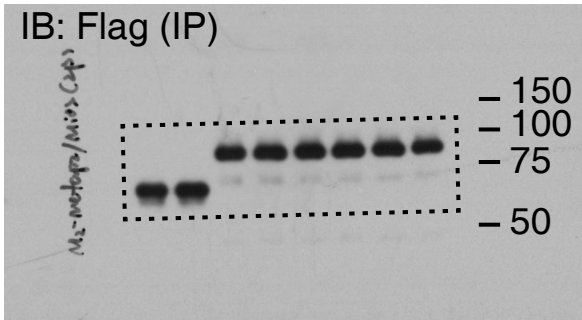
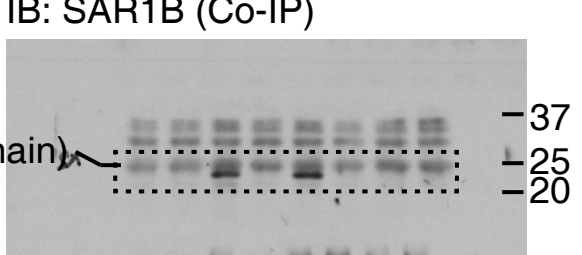
Extended Data Figure 3a



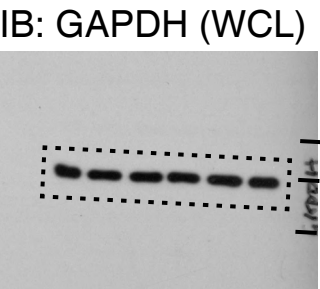
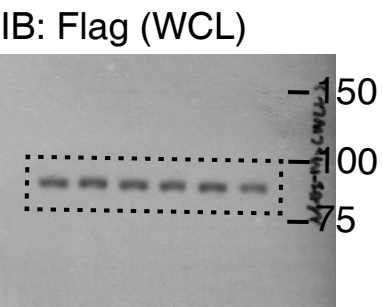
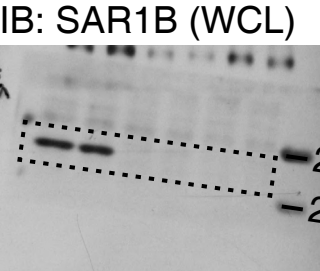
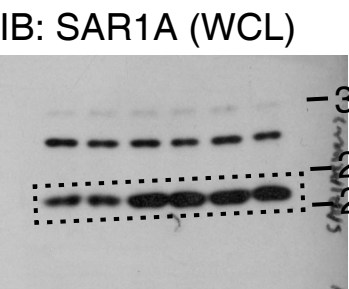
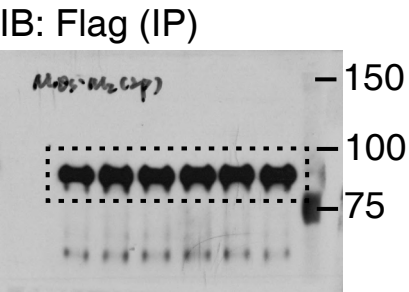
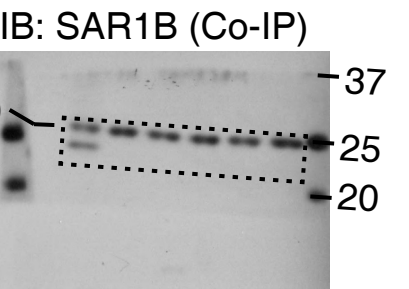
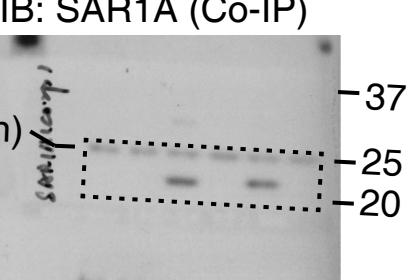
Extended Data Figure 3b



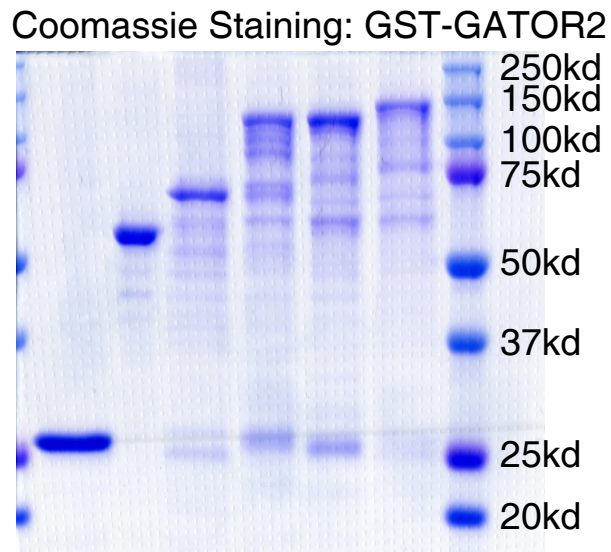
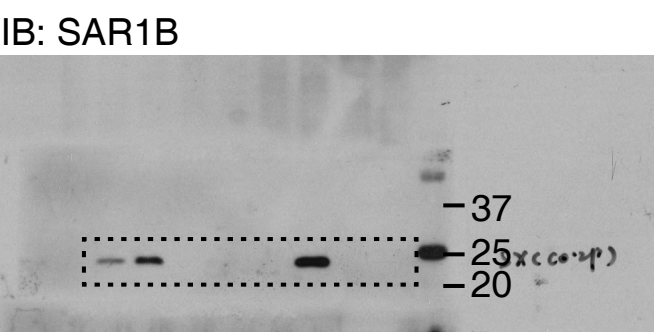
Extended Data Figure 3c



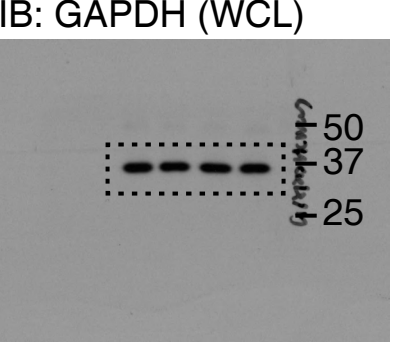
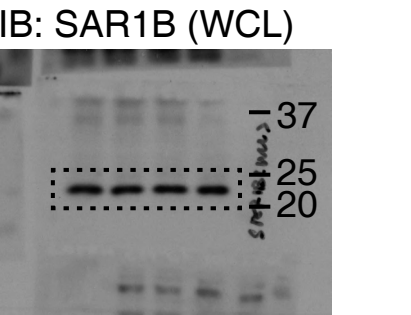
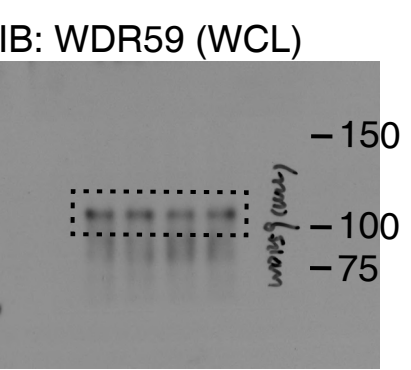
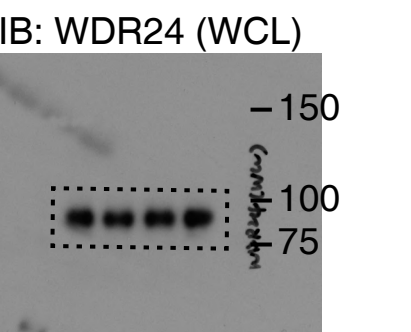
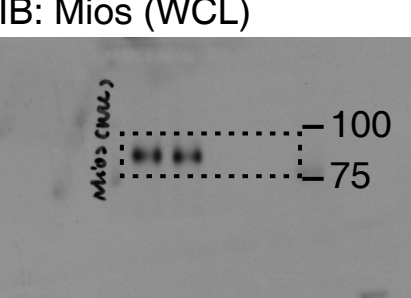
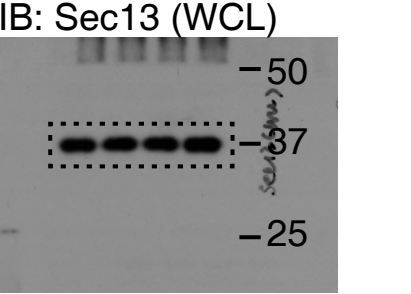
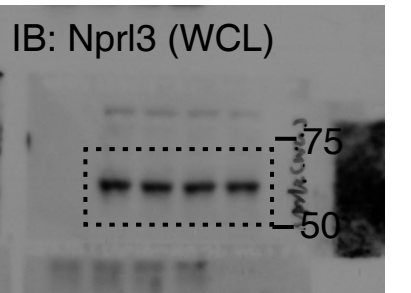
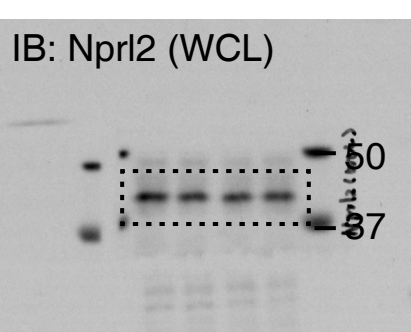
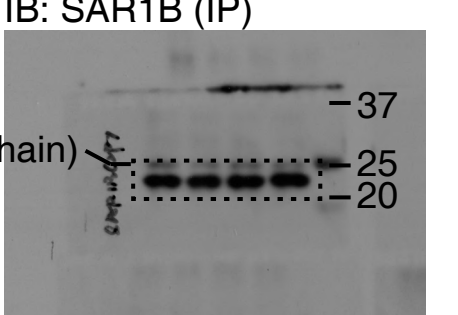
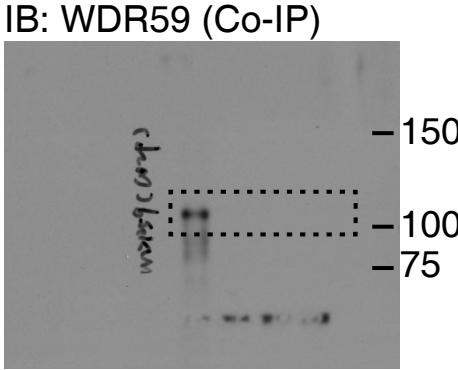
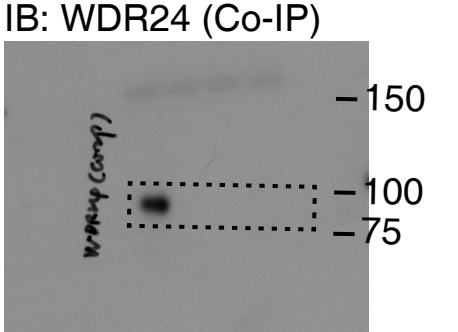
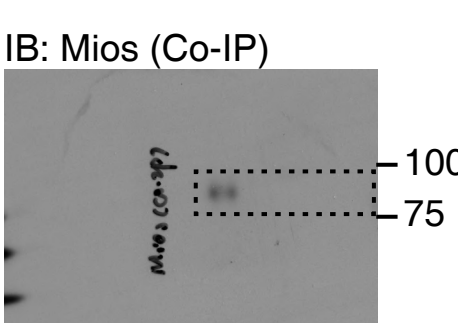
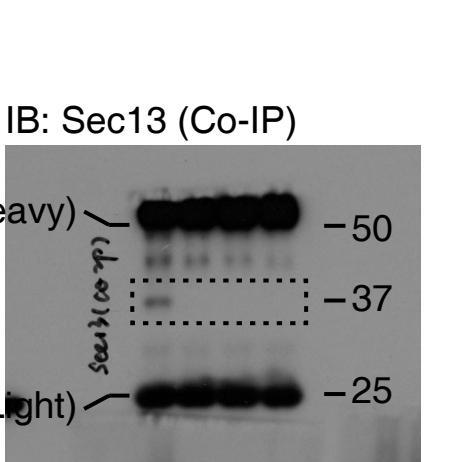
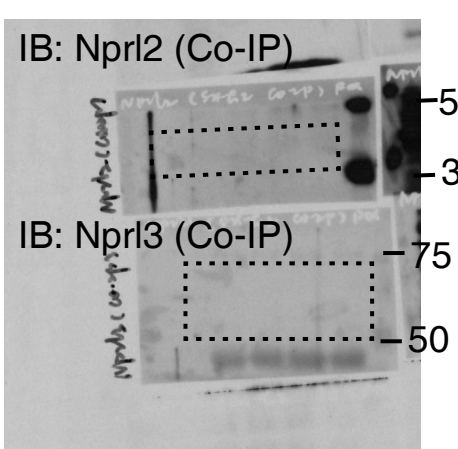
Extended Data Figure 3d



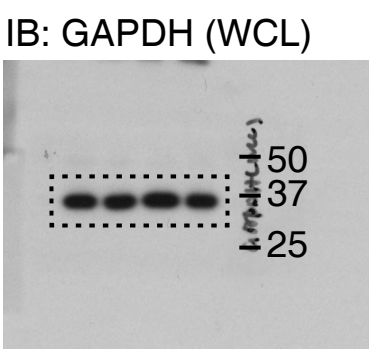
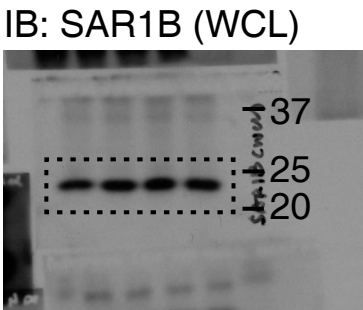
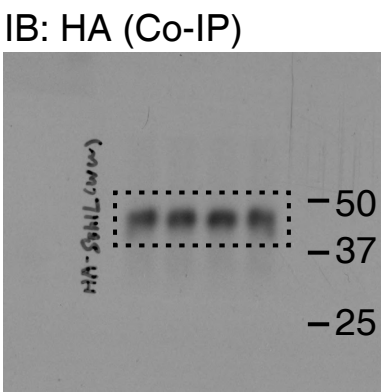
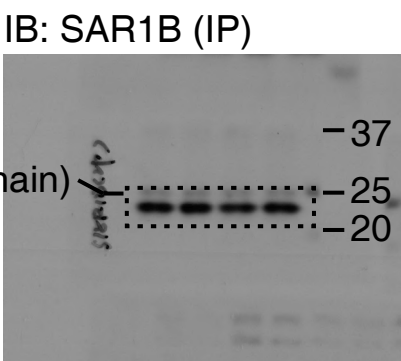
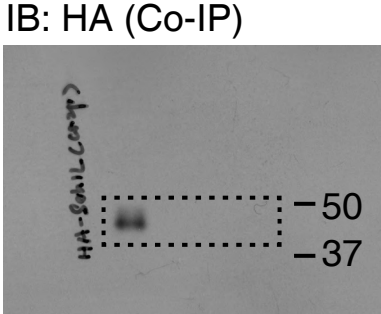
Extended Data Figure 3f



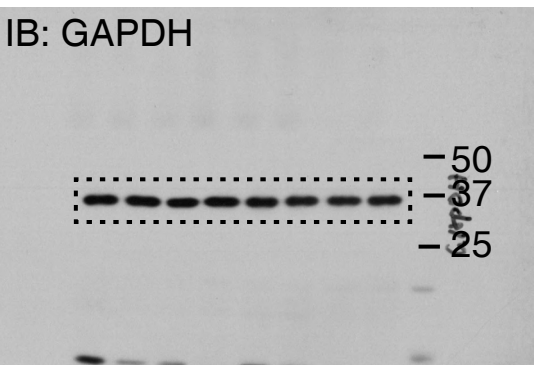
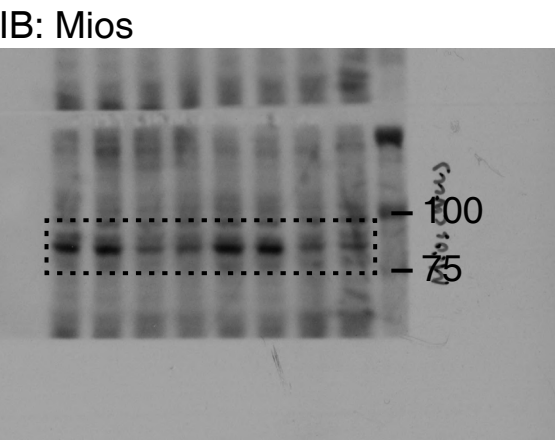
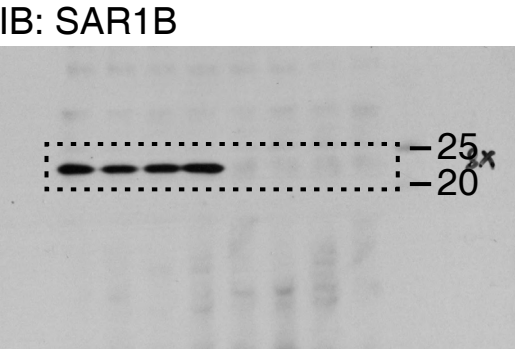
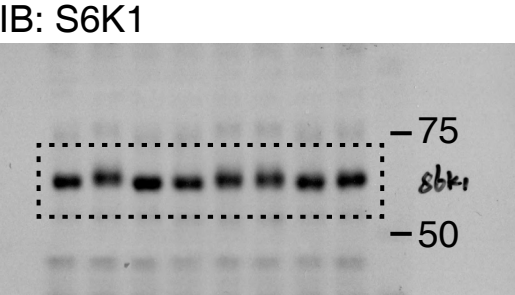
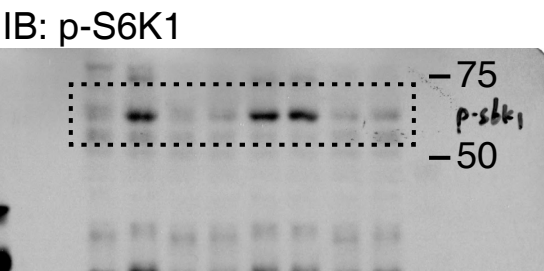
Extended Data Figure 3g



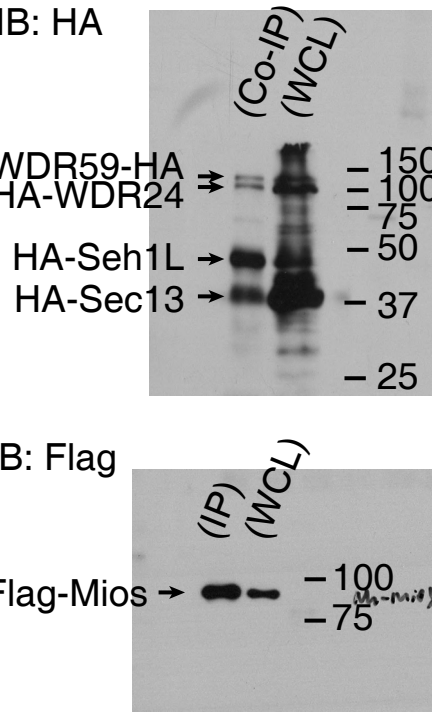
Extended Data Figure 3h



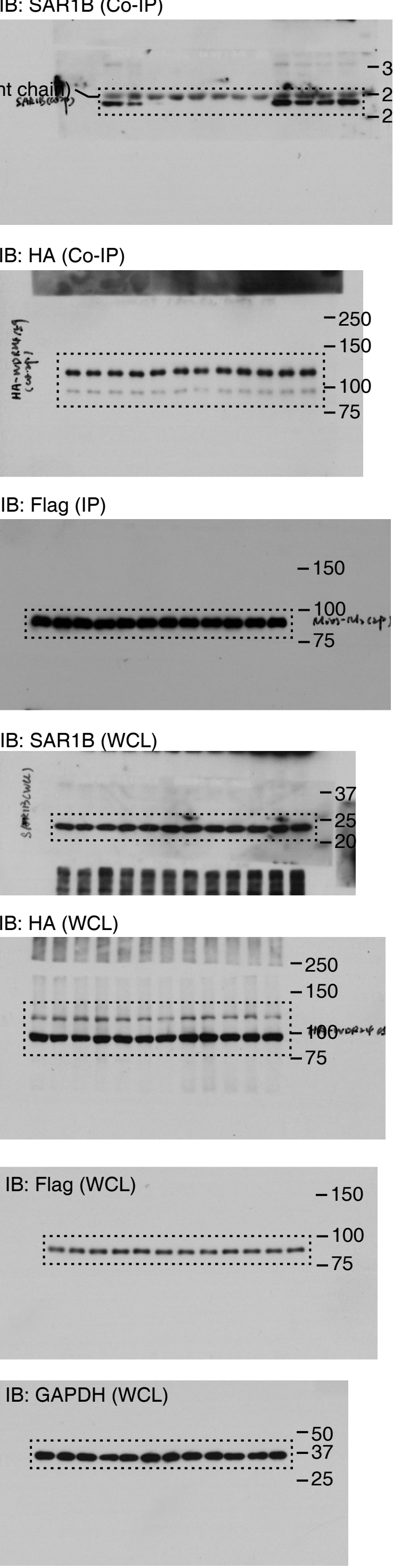
Extended Data Figure 3i



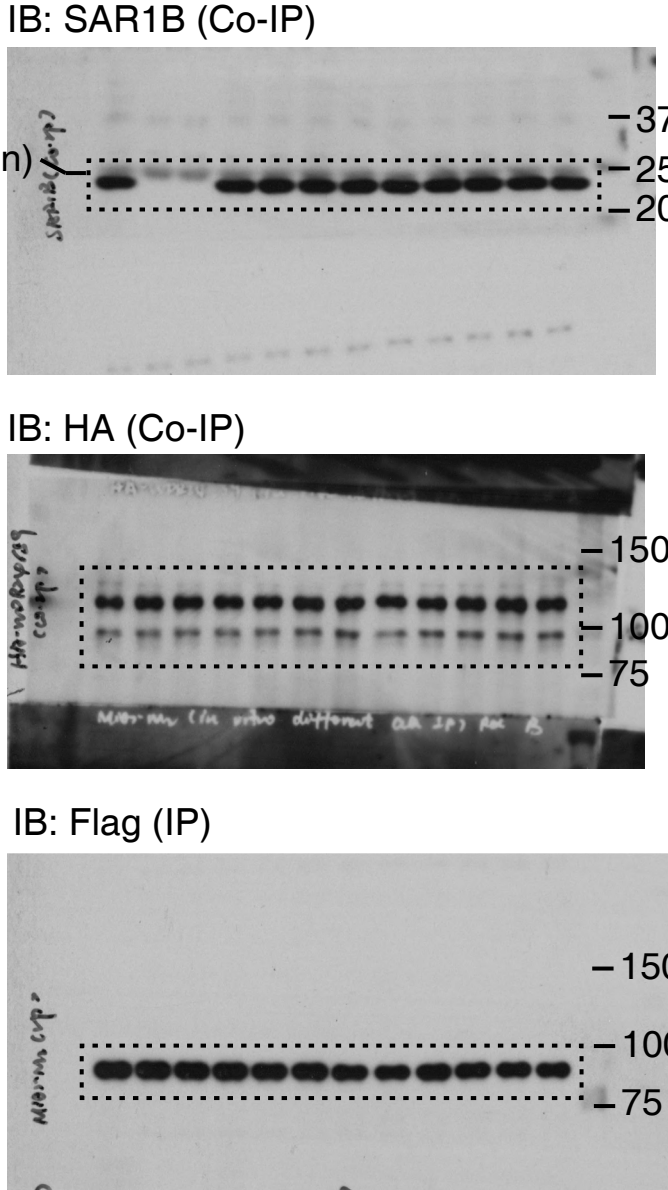
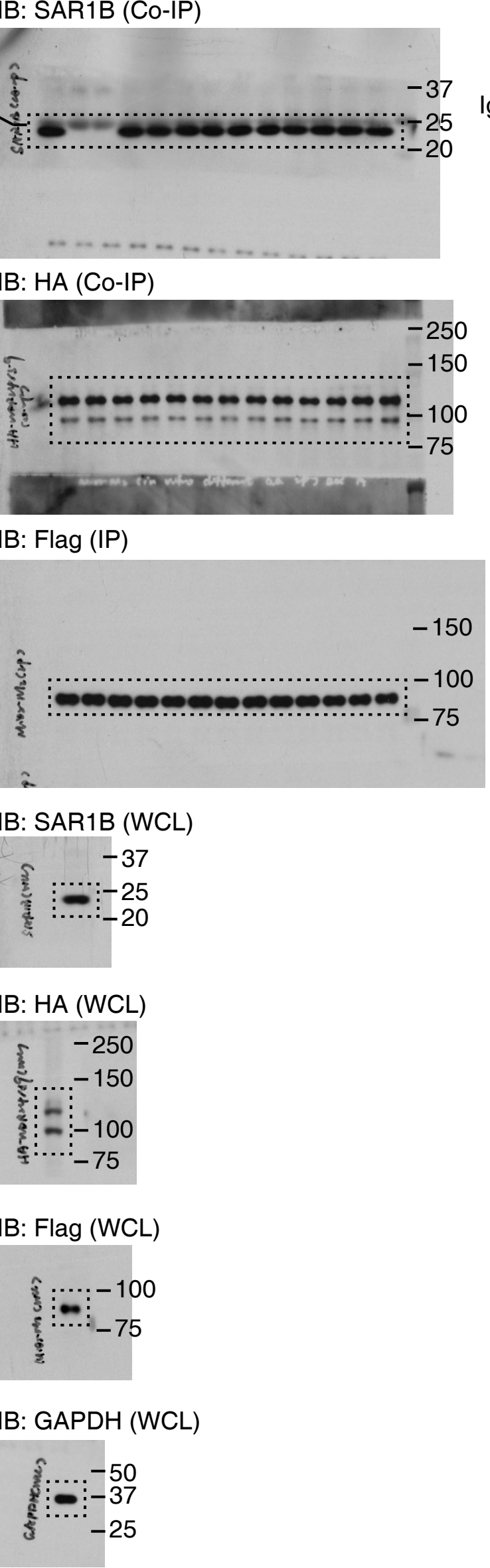
Extended Data Figure 5a



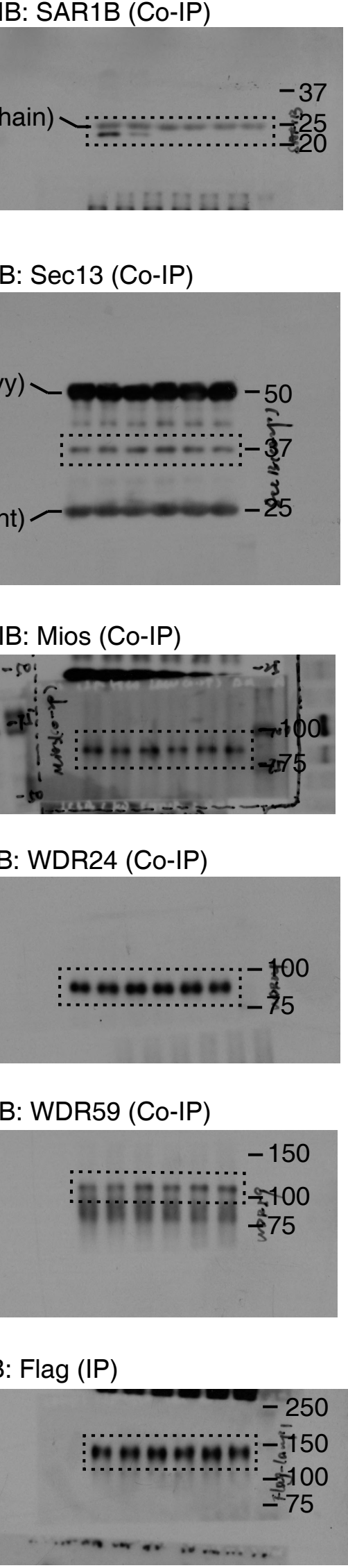
Extended Data Figure 5b



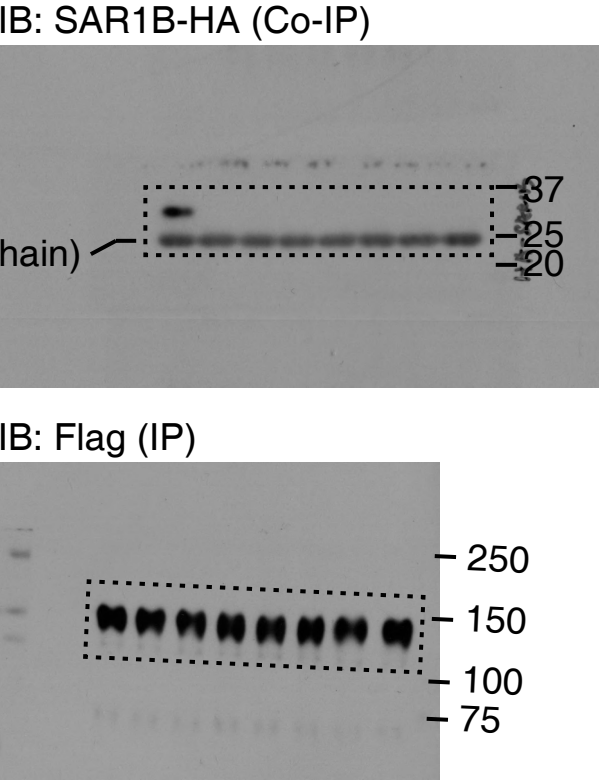
Extended Data Figure 5c



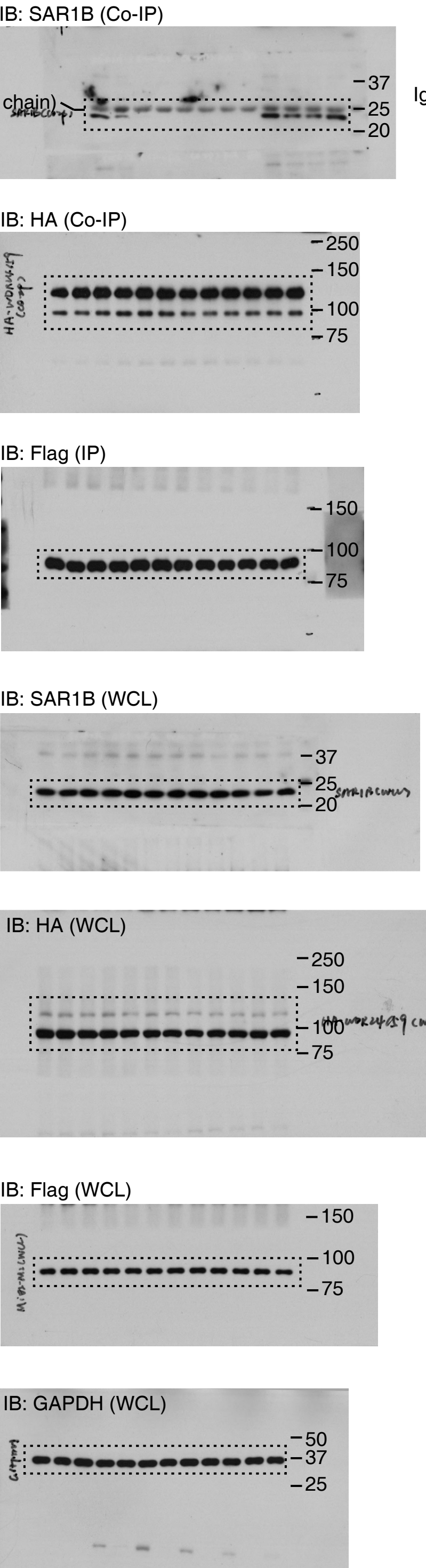
Extended Data Figure 5e



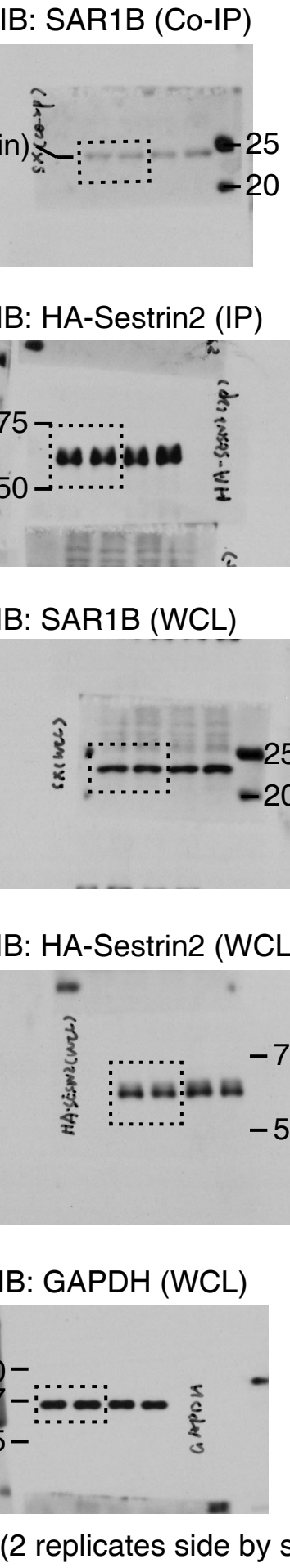
Extended Data Figure 5f



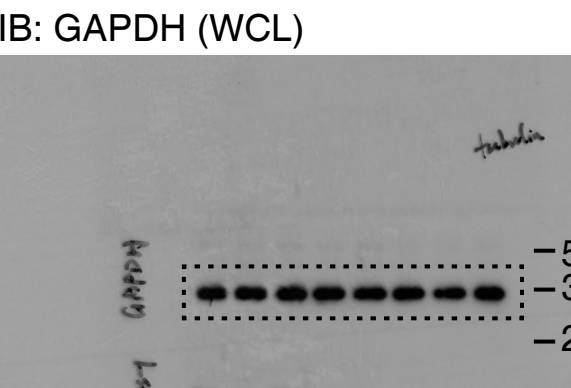
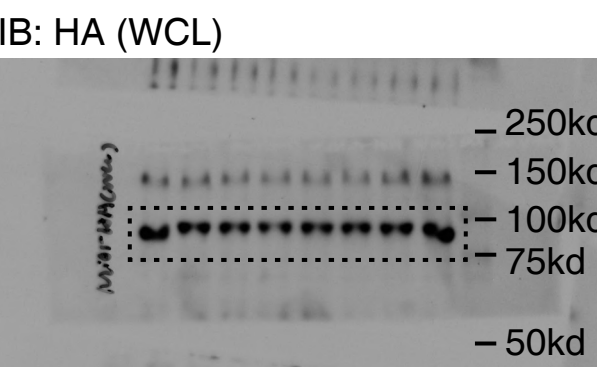
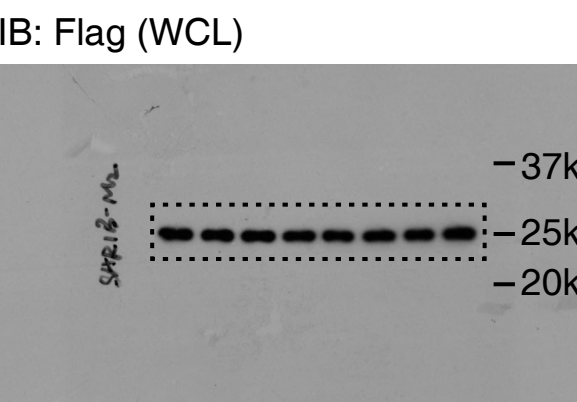
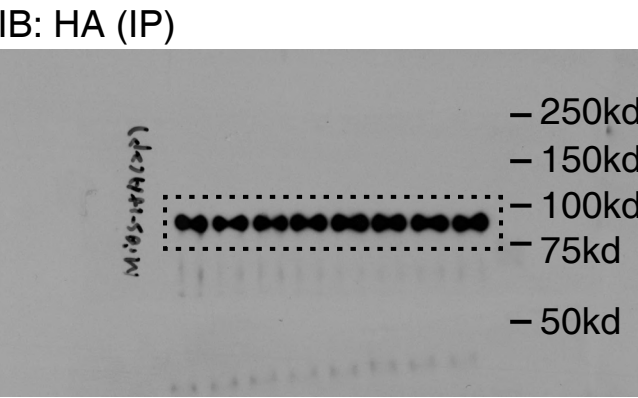
Extended Data Figure 5g



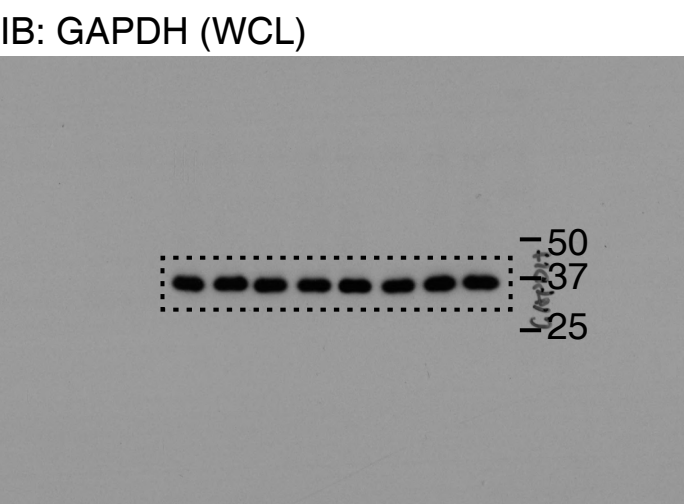
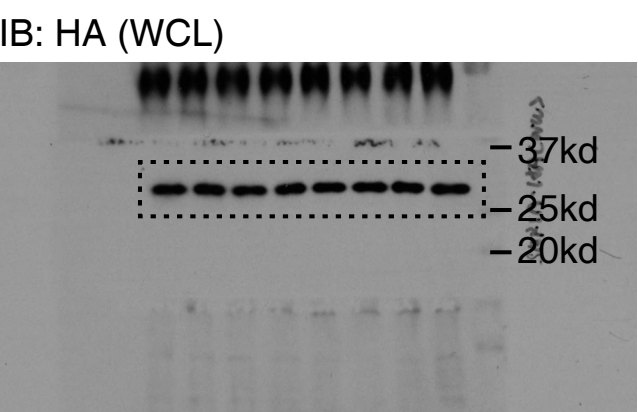
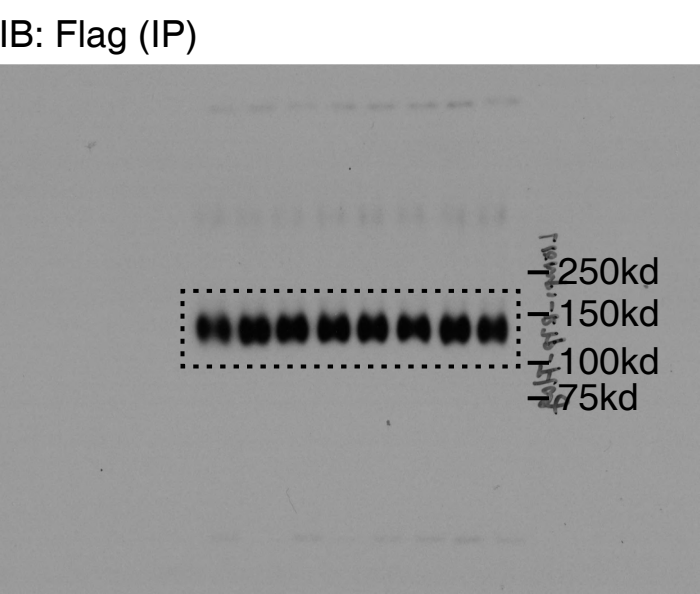
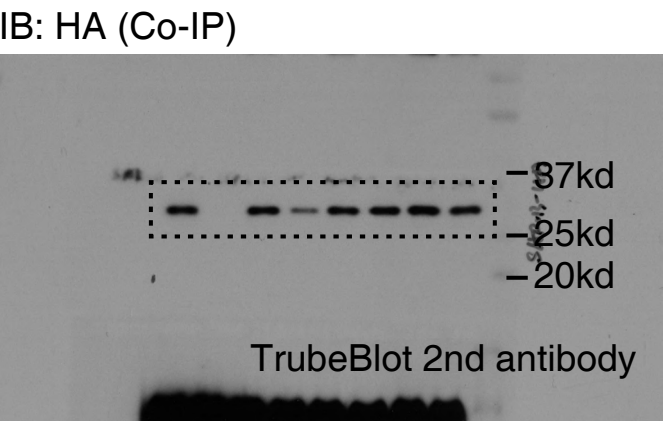
Extended Data Figure 5h



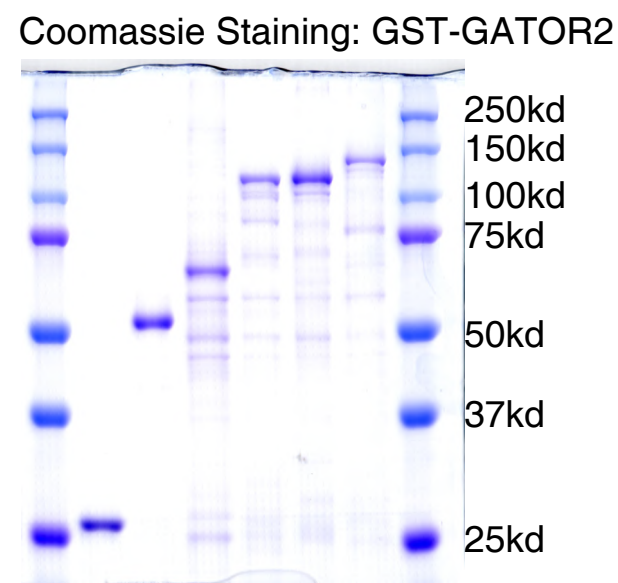
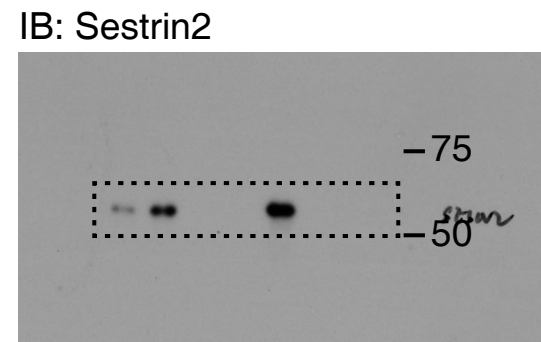
Extended Data Figure 6l



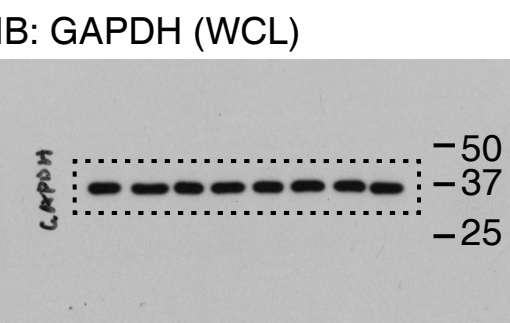
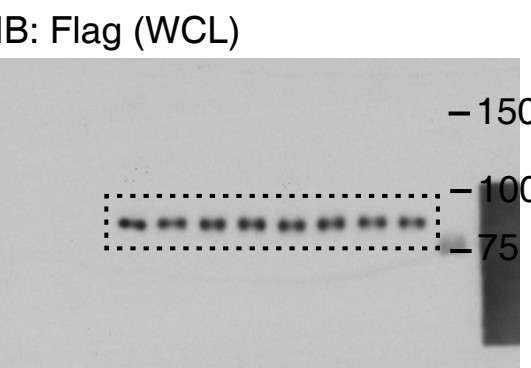
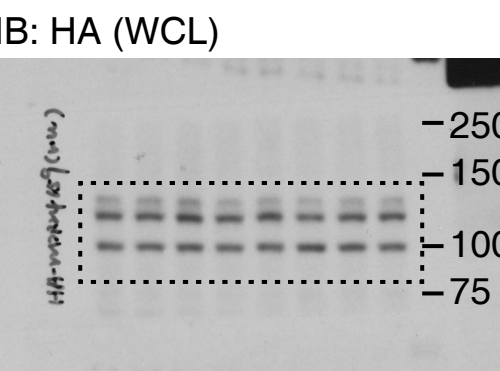
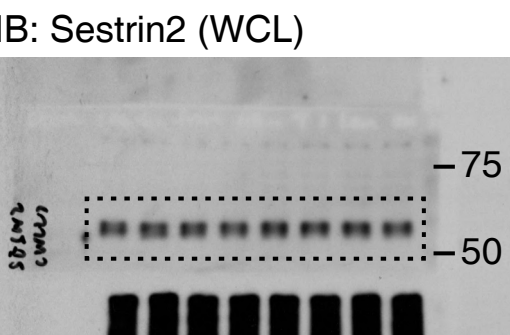
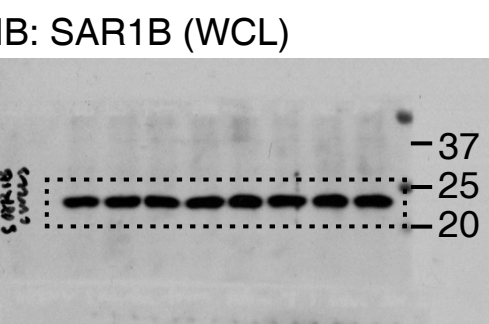
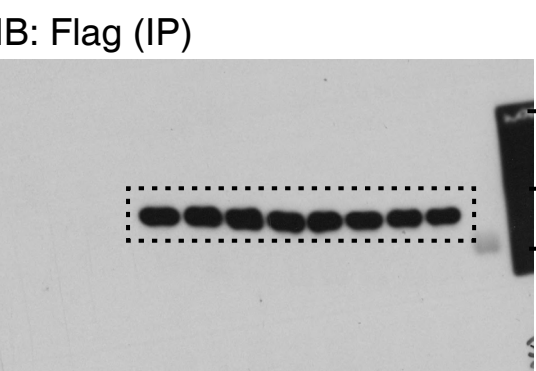
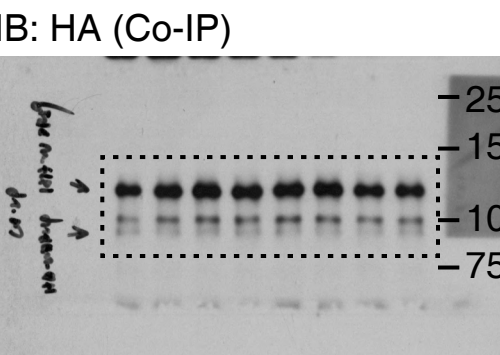
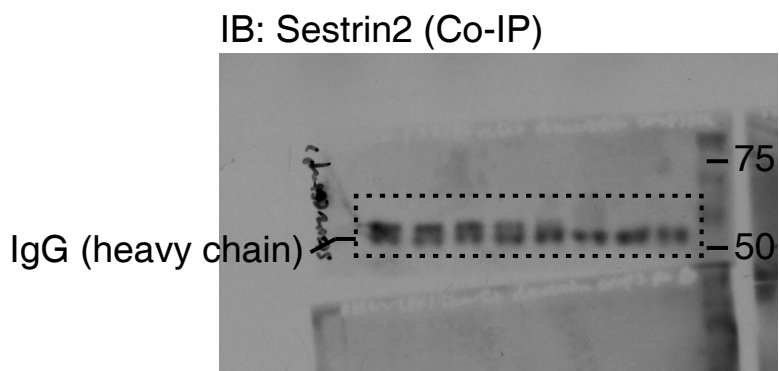
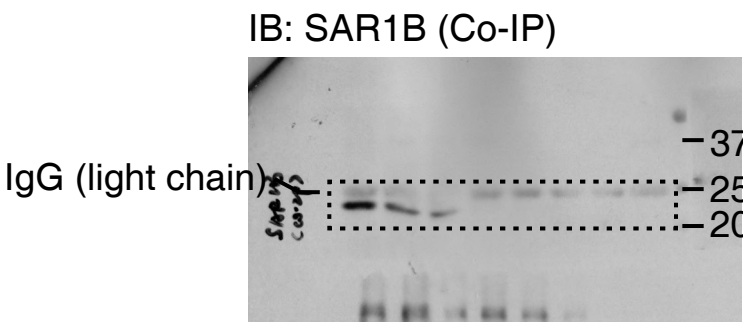
Extended Data Figure 6m



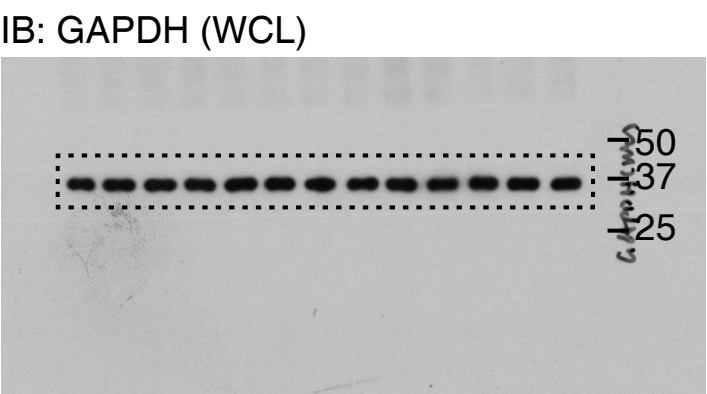
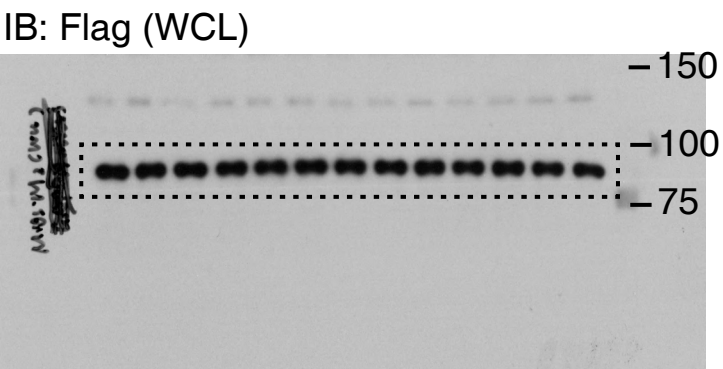
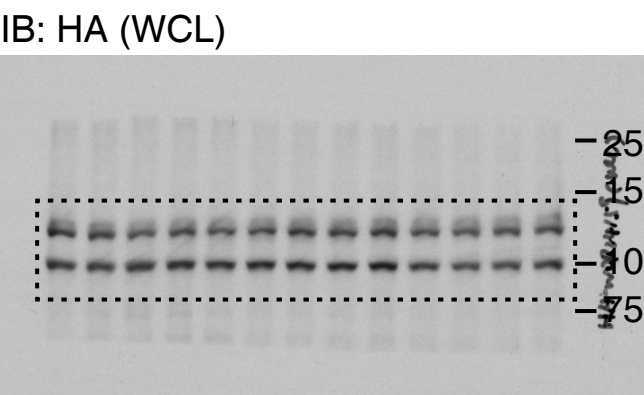
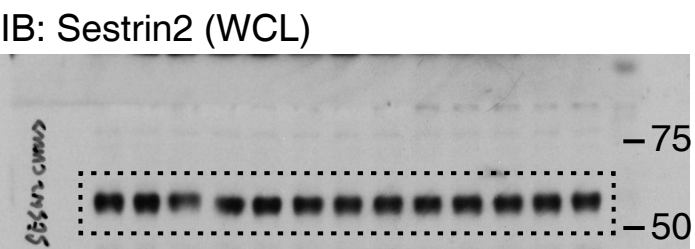
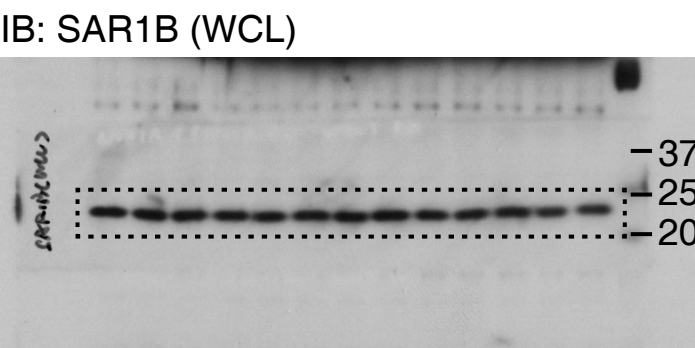
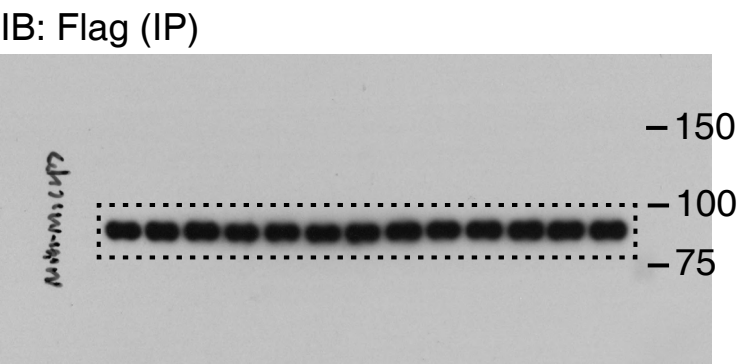
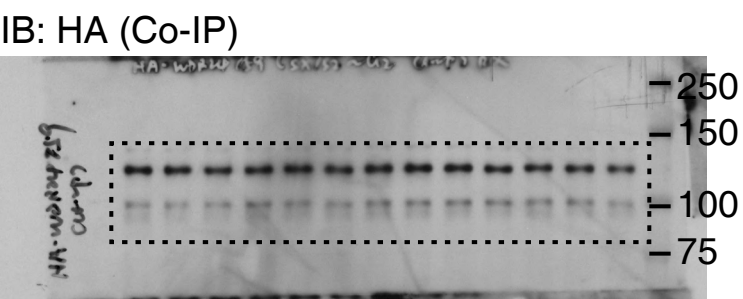
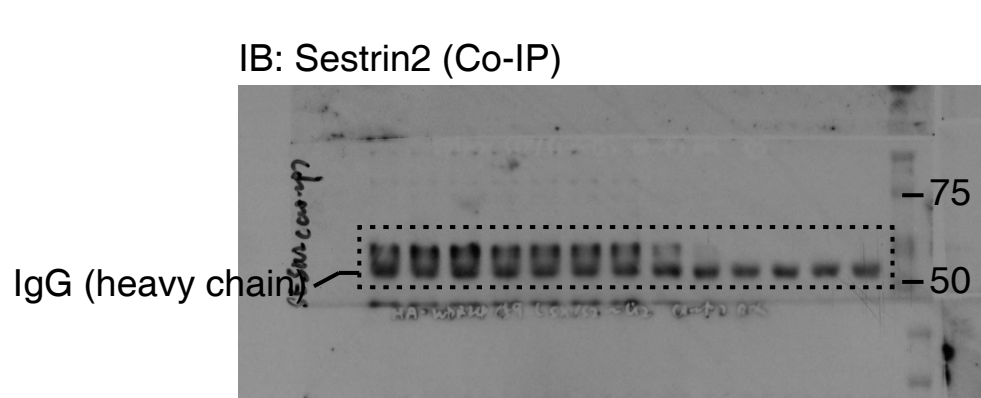
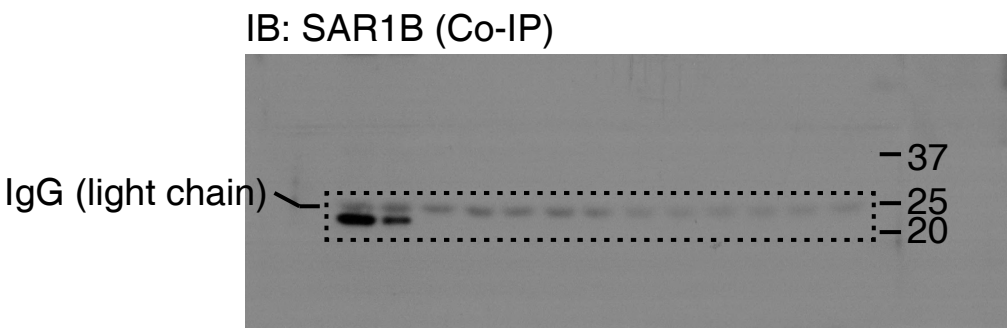
Extended Data Figure 6n



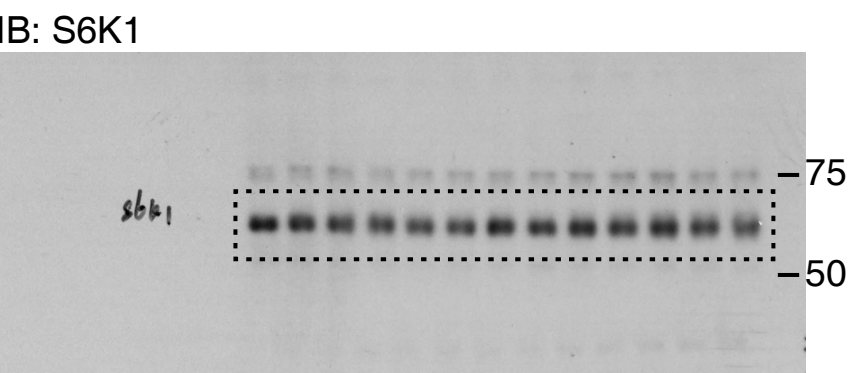
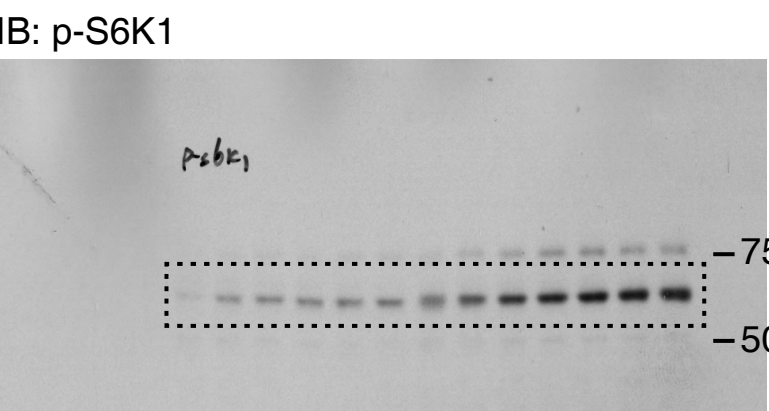
Extended Data Figure 6o



Extended Data Figure 6p

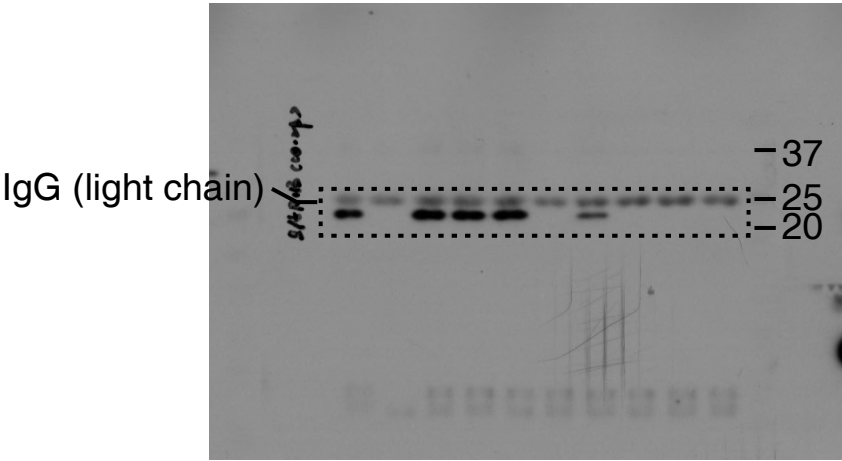


Extended Data Figure 6q

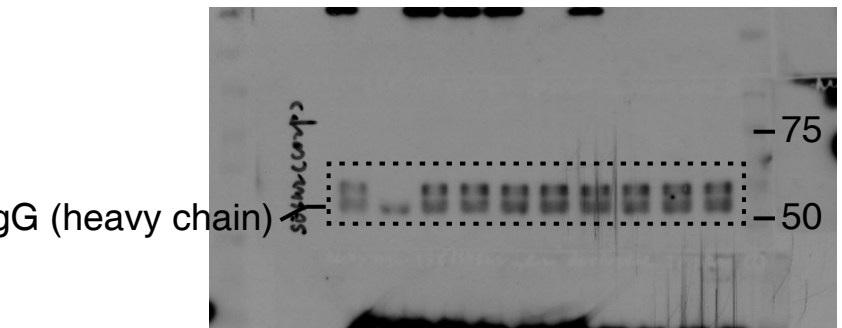


Extended Data Figure 7b

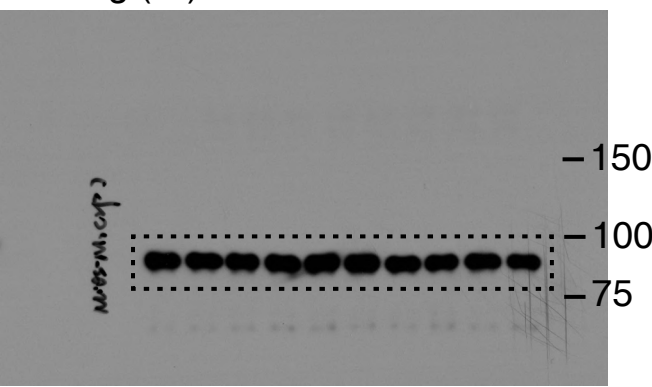
IB: SAR1B (Co-IP)



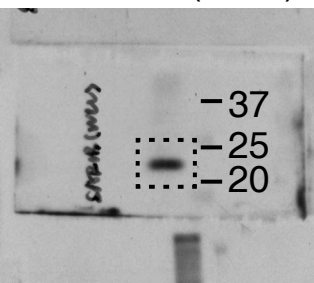
IB: Sestrin2 (Co-IP)



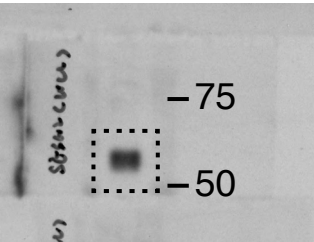
IB: Flag (IP)



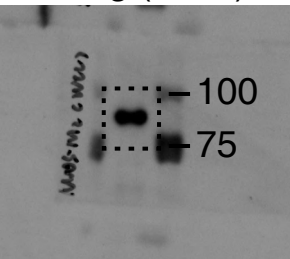
IB: SAR1B (WCL)



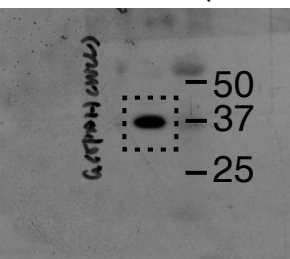
IB: Sestrin2 (WCL)



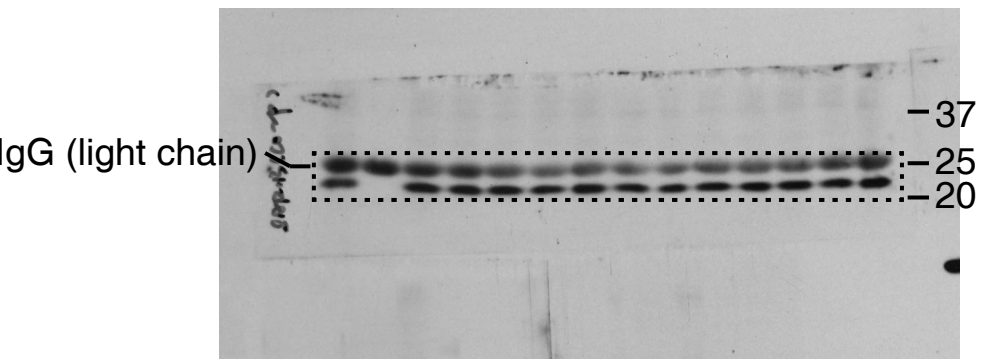
IB: Flag (WCL)



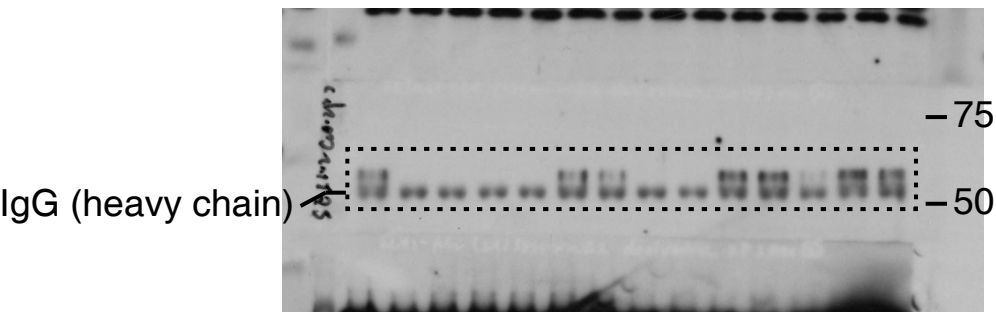
IB: GAPDH (WCL)



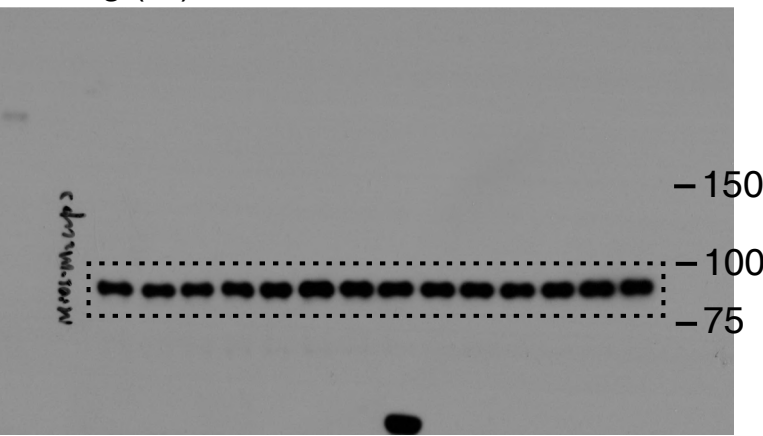
IB: SAR1B (Co-IP)



IB: Sestrin2 (Co-IP)

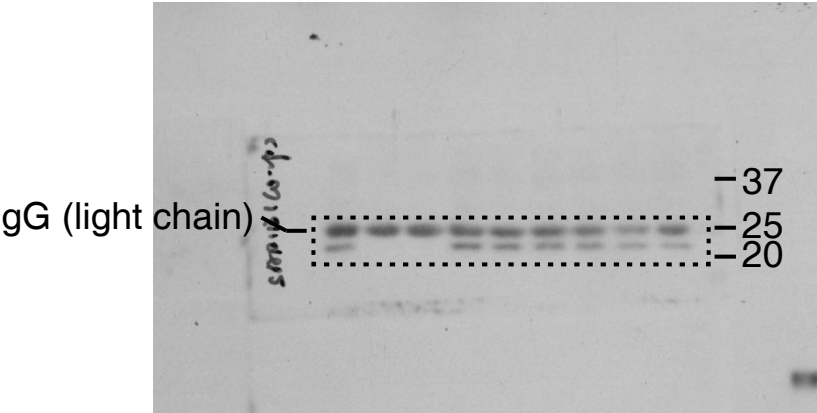


IB: Flag (IP)

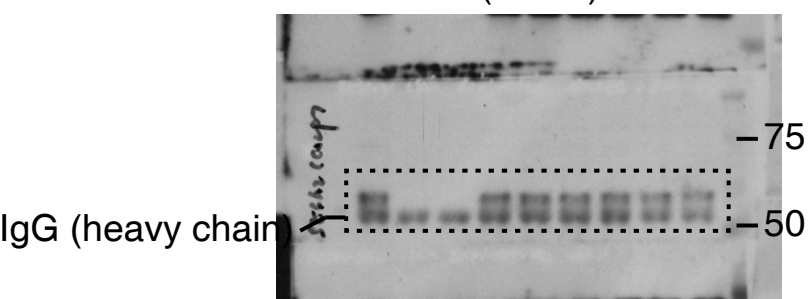


Extended Data Figure 7c

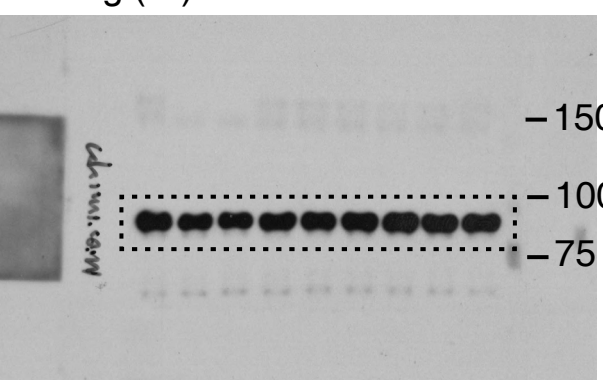
IB: SAR1B (Co-IP)



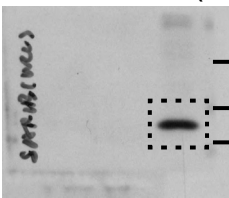
IB: Sestrin2 (Co-IP)



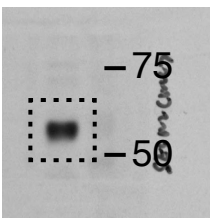
IB: Flag (IP)



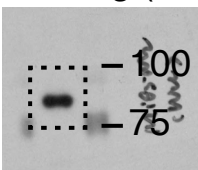
IB: SAR1B (WCL)



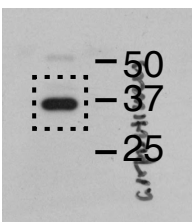
IB: Sestrin2 (WCL)



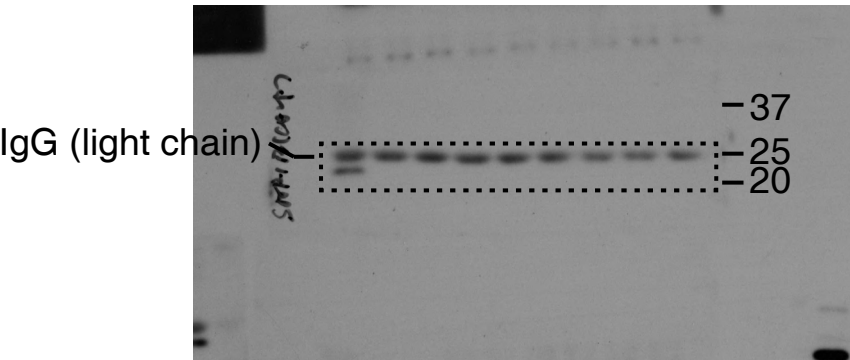
IB: Flag (WCL)



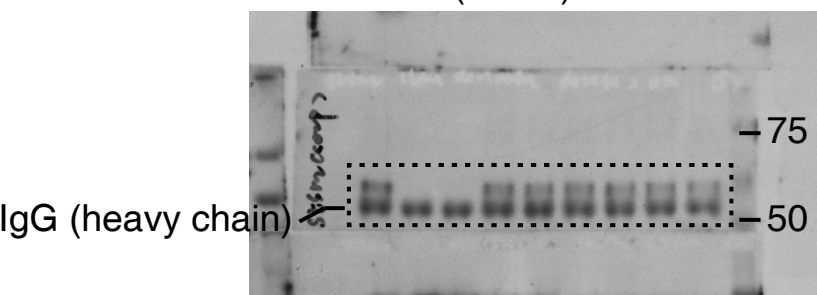
IB: GAPDH (WCL)



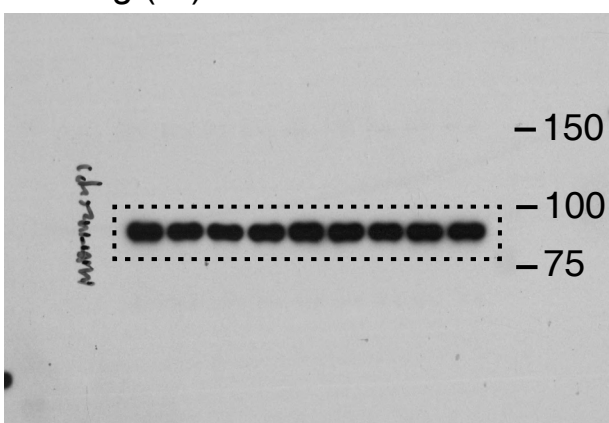
IB: SAR1B (Co-IP)



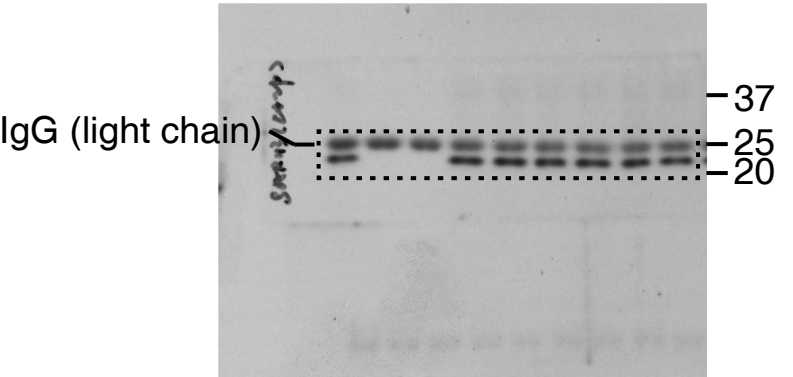
IB: Sestrin2 (Co-IP)



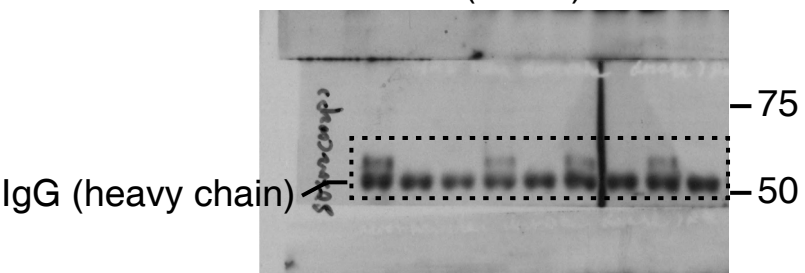
IB: Flag (IP)



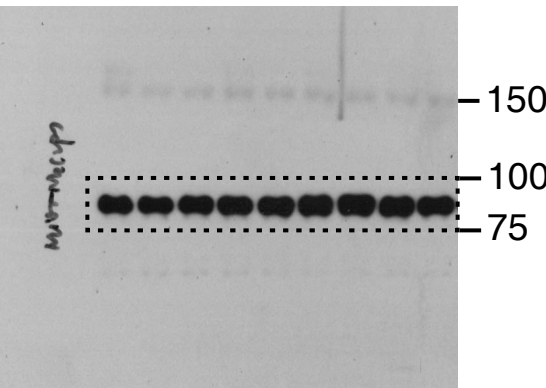
IB: SAR1B (Co-IP)



IB: Sestrin2 (Co-IP)

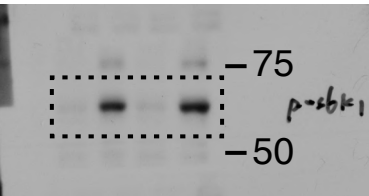


IB: Flag (IP)

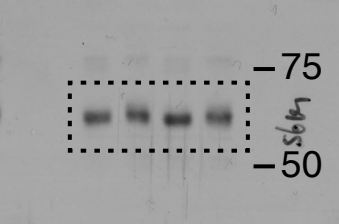


Extended Data Figure 7e

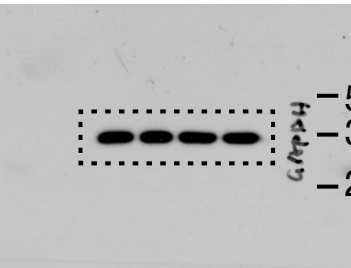
IB: p-S6K1



IB: S6K1

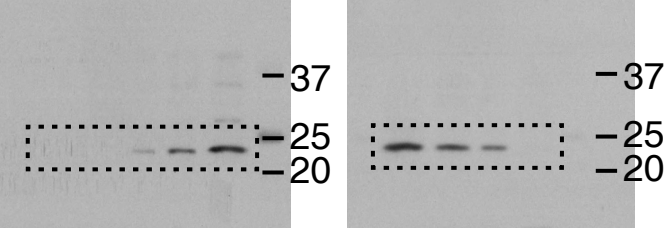


IB: GAPDH

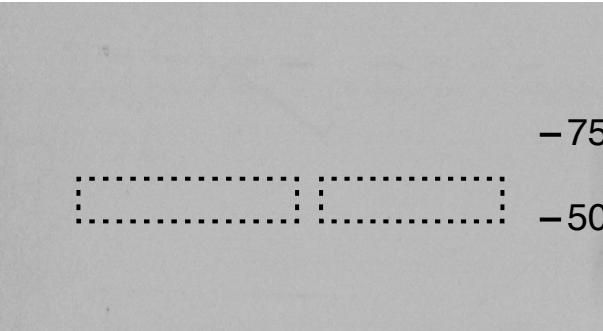


Extended Data Figure 7f and 7g

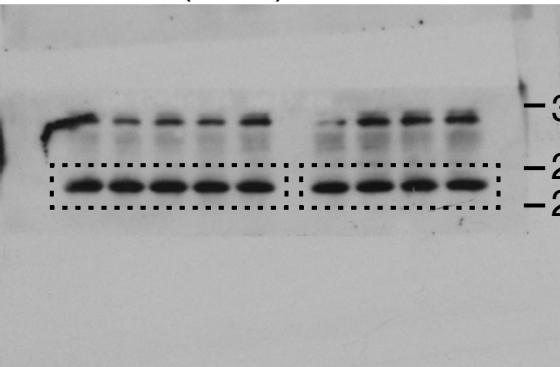
IB: SAR1B



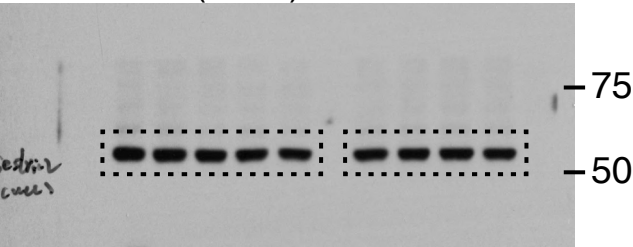
IB: Sestrin2



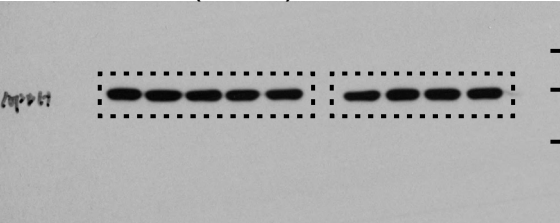
IB: SAR1B (WCL)

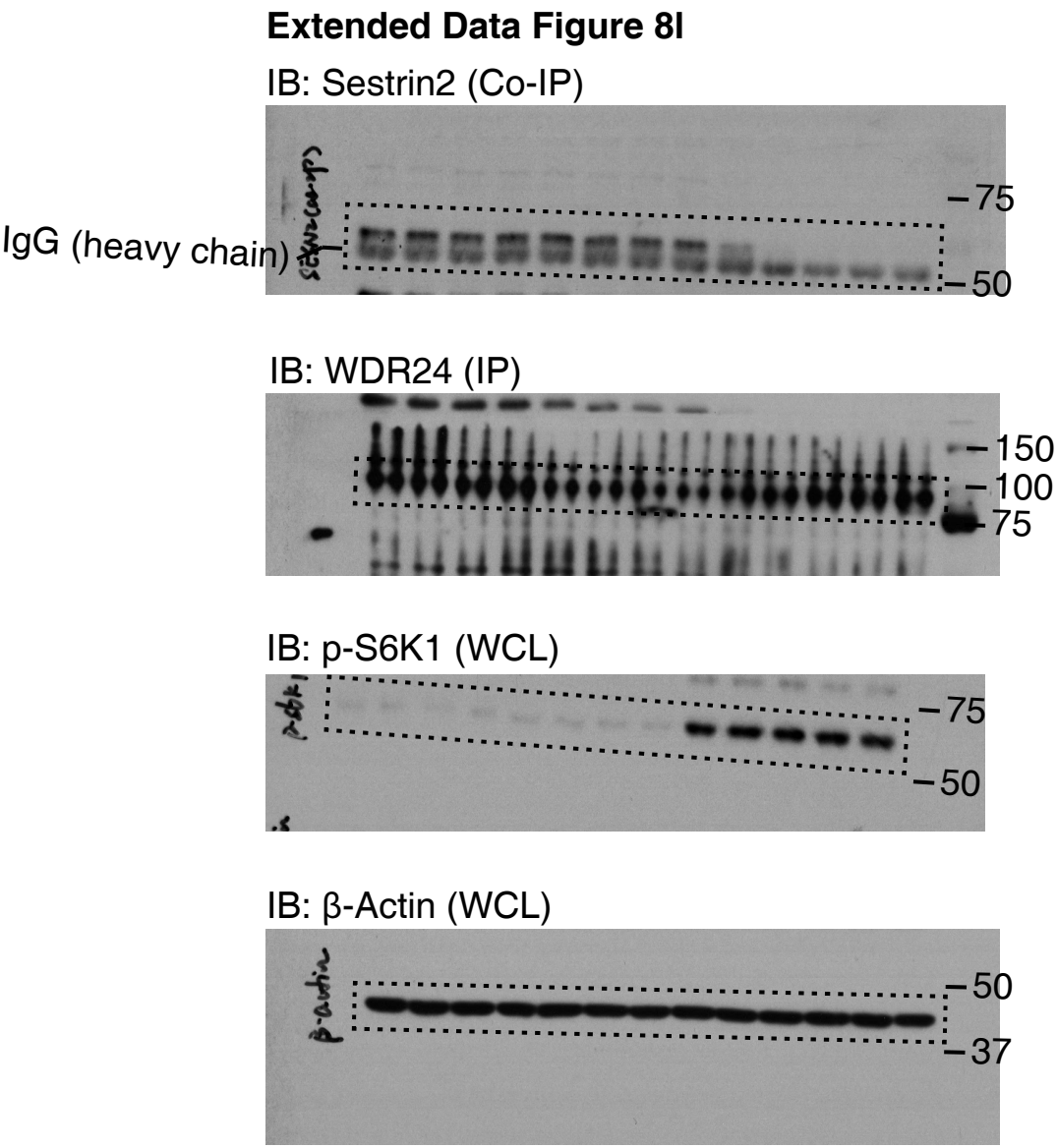
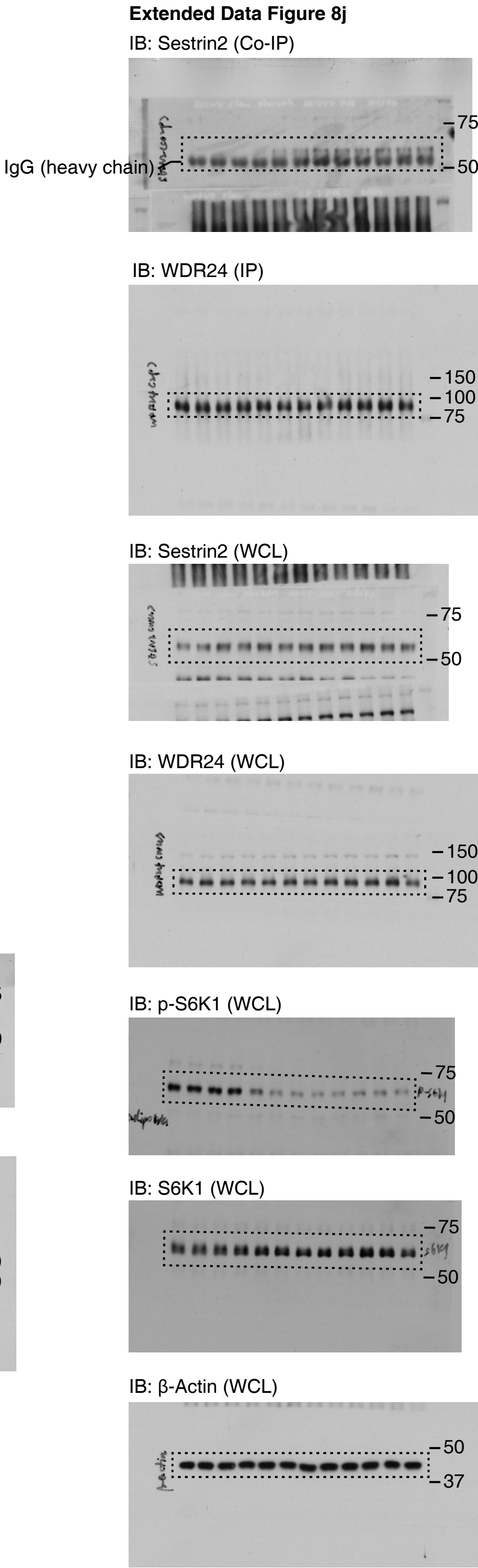
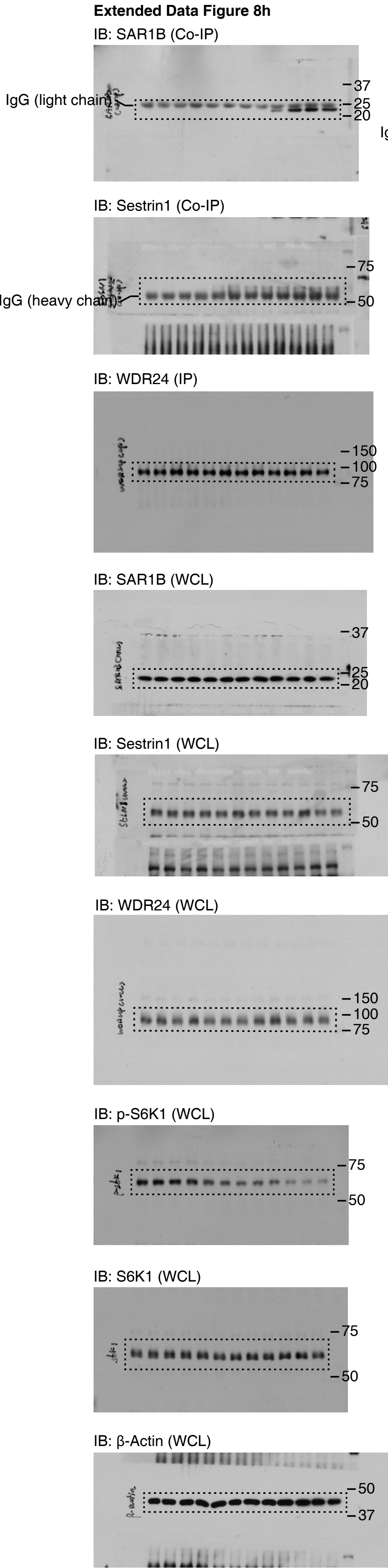
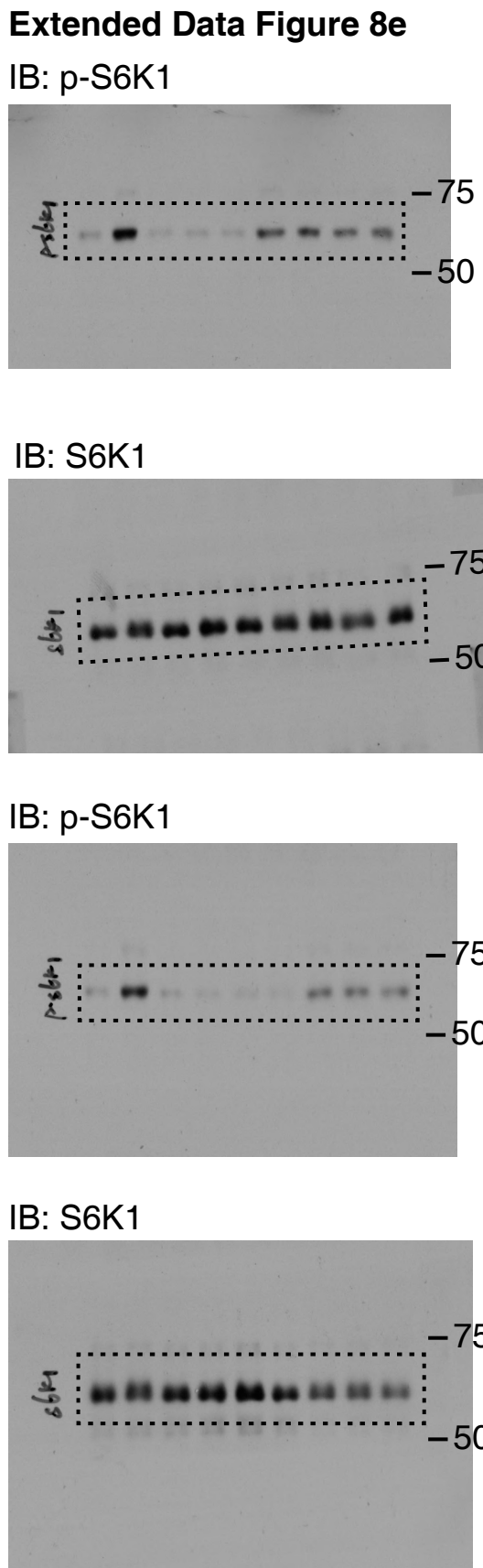
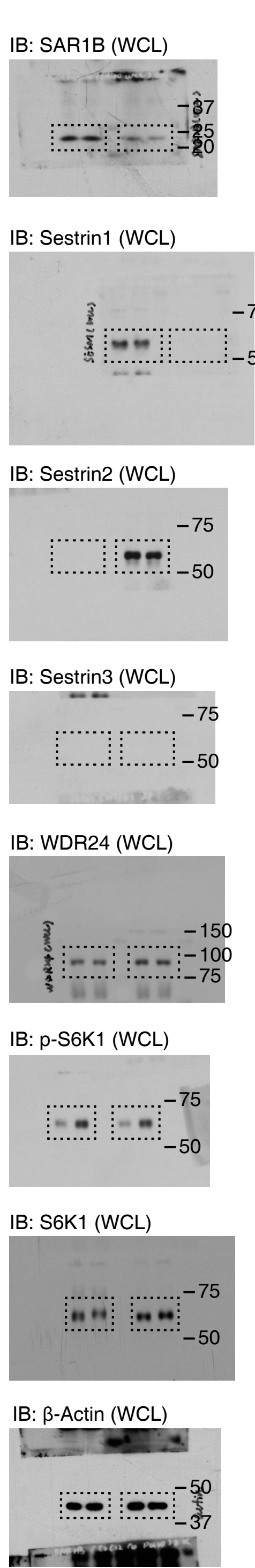
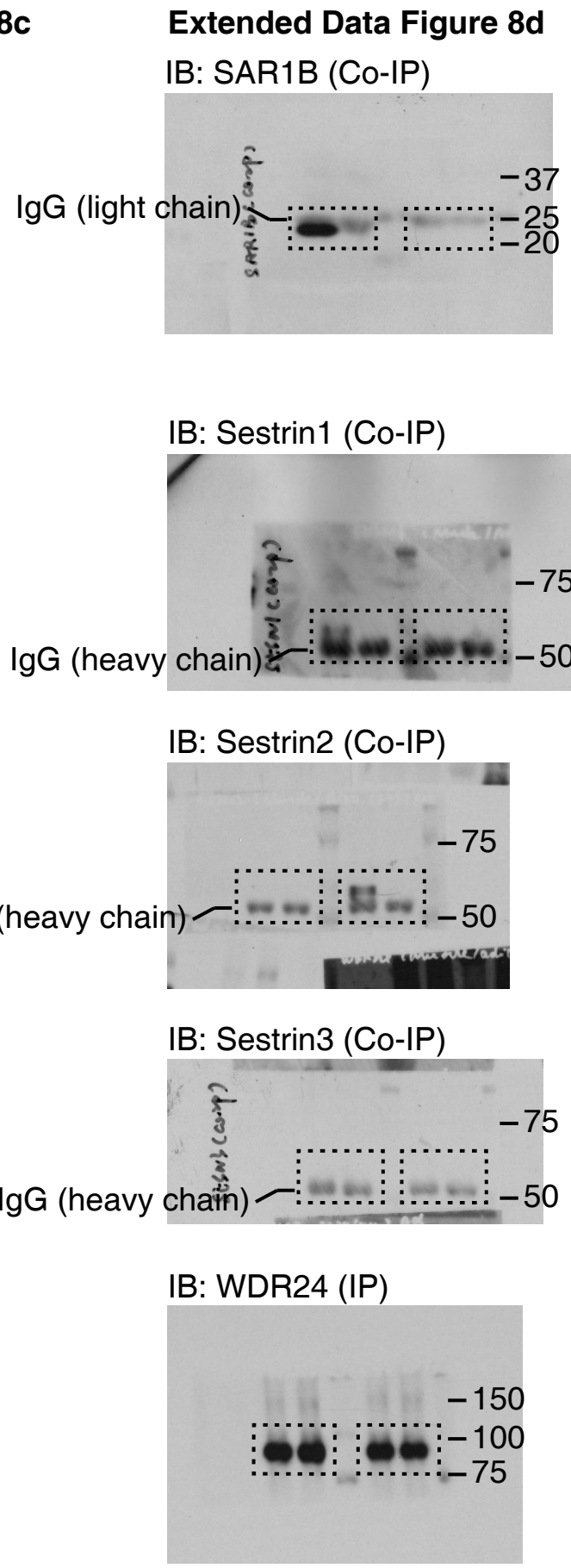
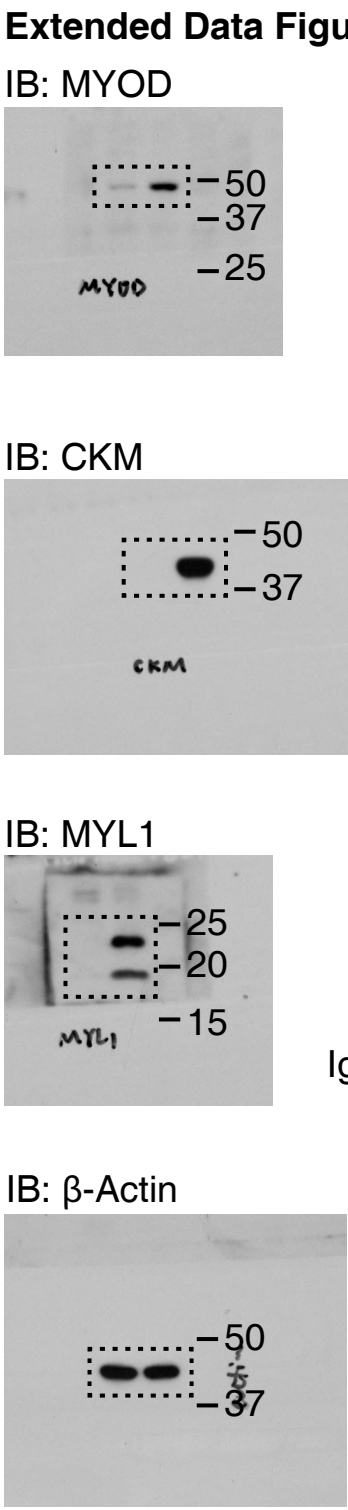
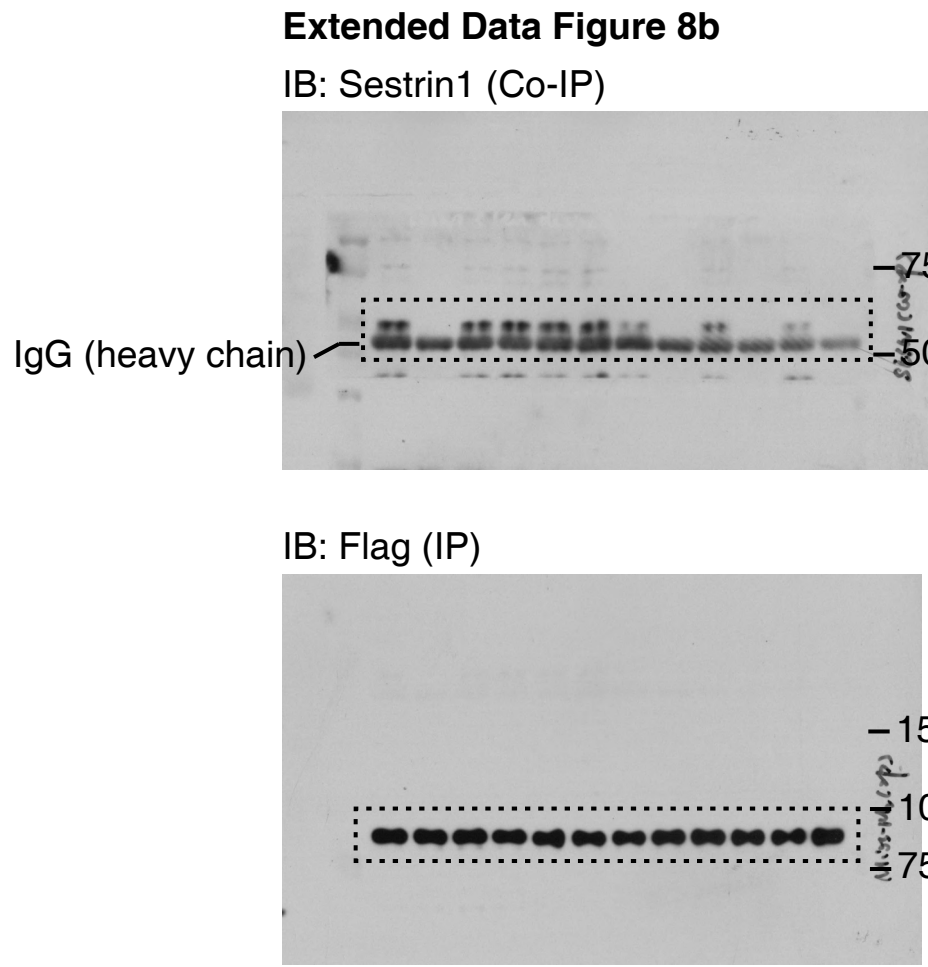


IB: Sestrin2 (WCL)



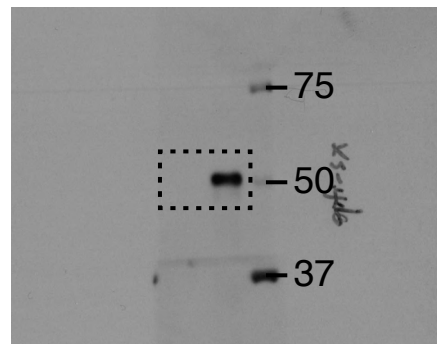
IB: GAPDH (WCL)





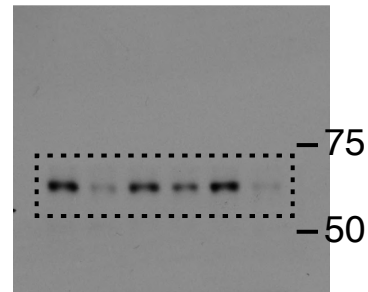
Extended Data Figure 9d

IB: GFP

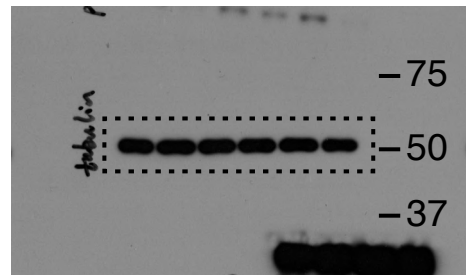


Extended Data Figure 9g

IB: p-RSKS-1

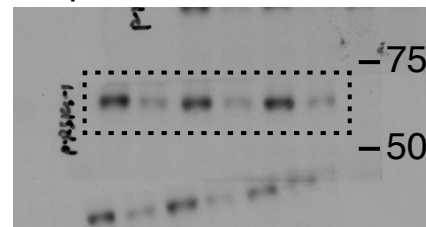


IB: α -Tubulin

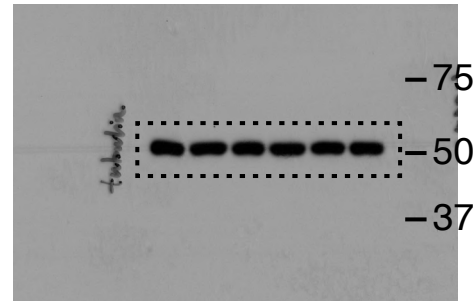


Extended Data Figure 9i

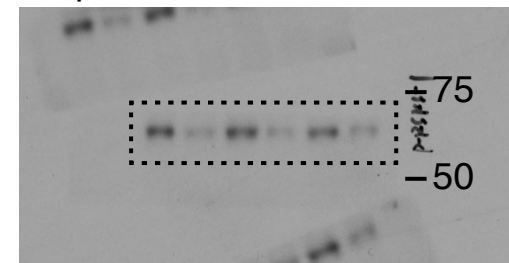
IB: p-RSKS-1



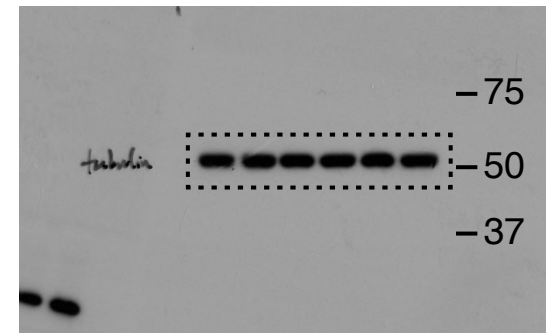
IB: α -Tubulin



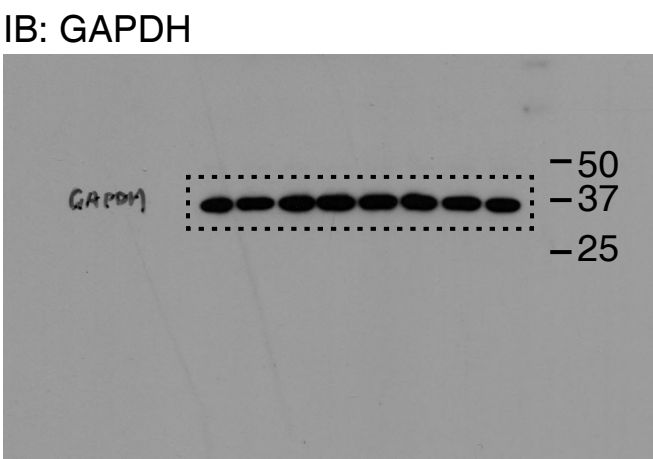
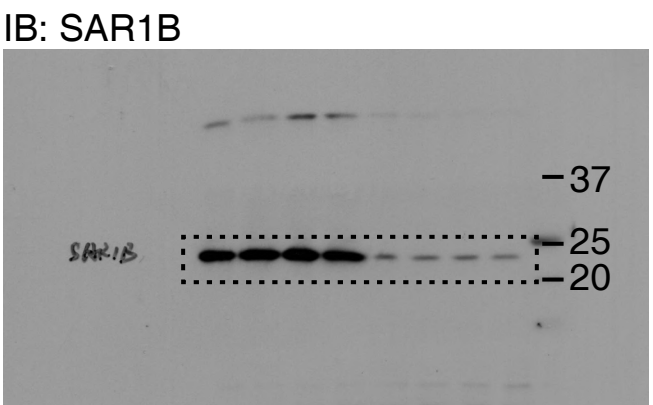
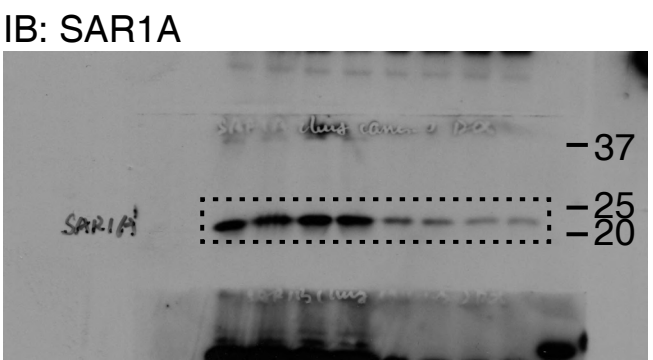
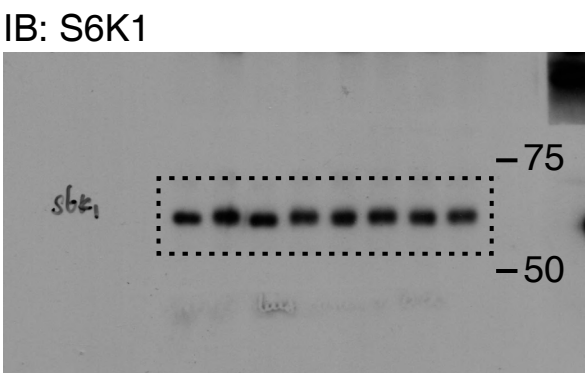
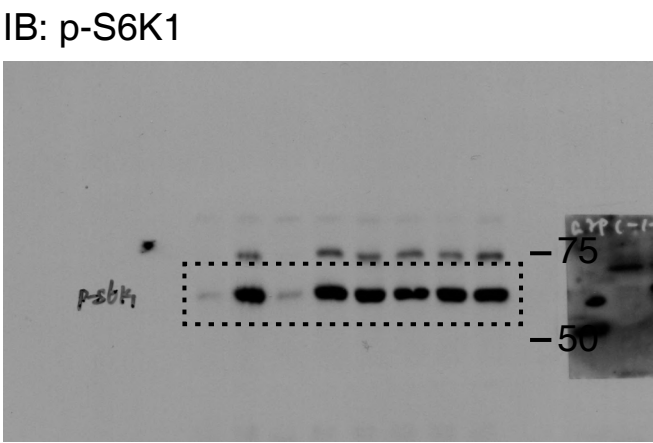
IB: p-RSKS-1



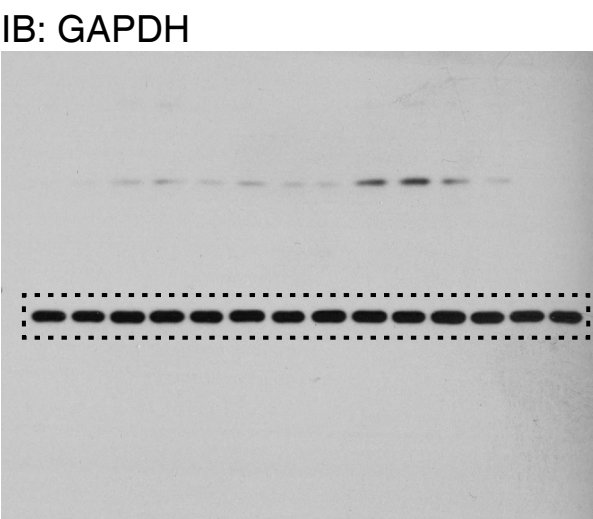
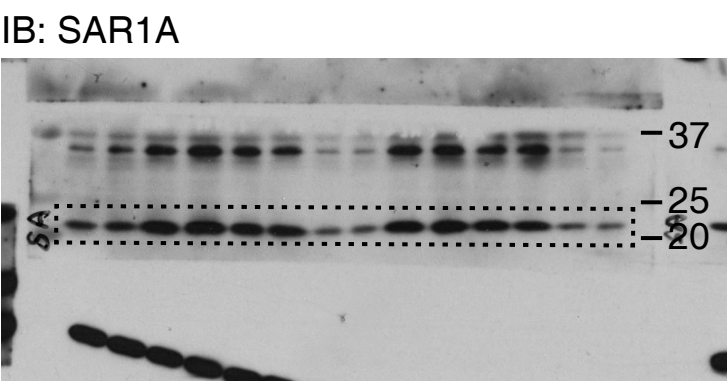
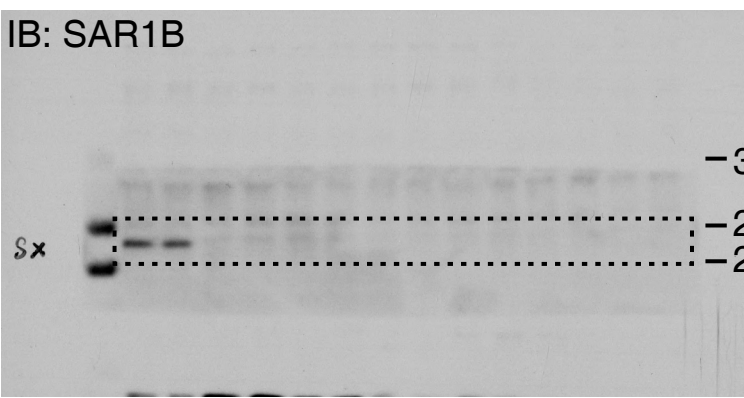
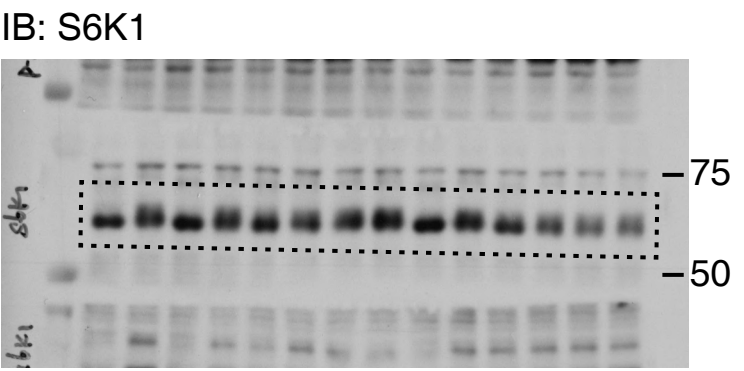
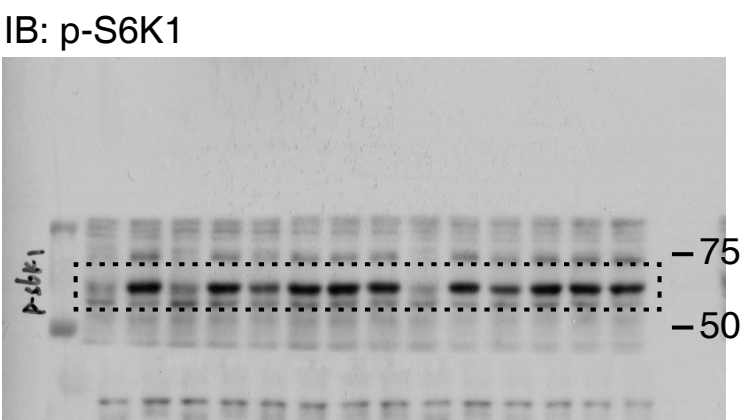
IB: α -Tubulin



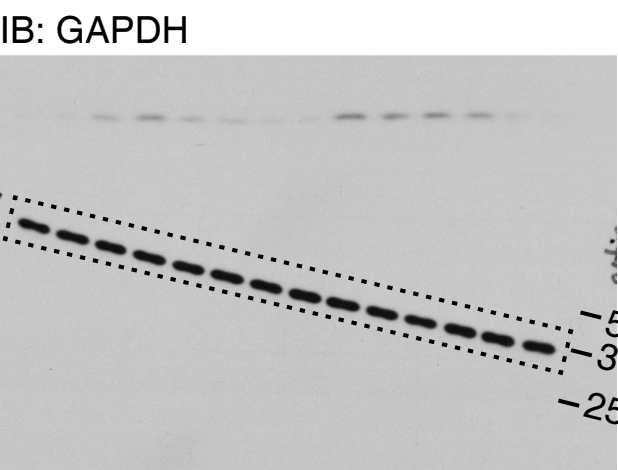
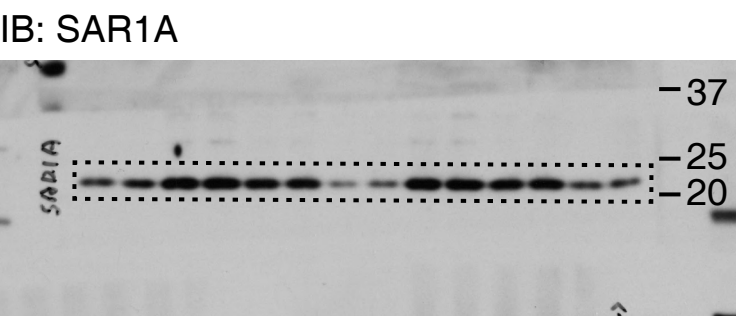
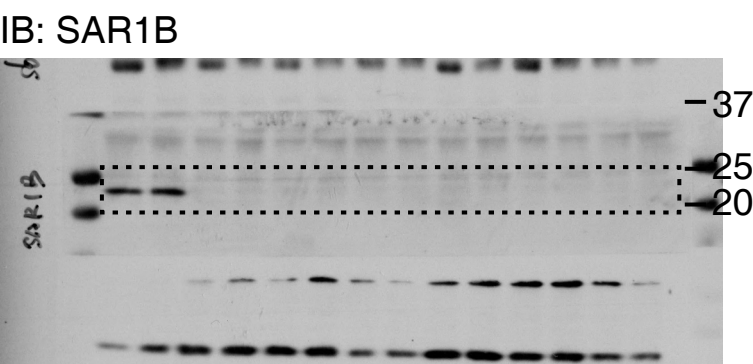
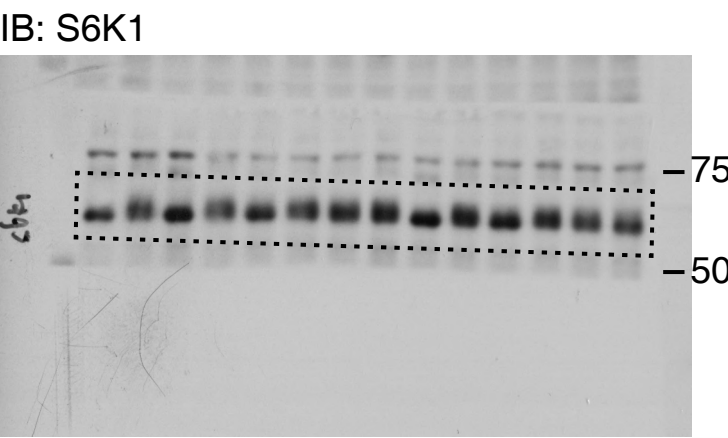
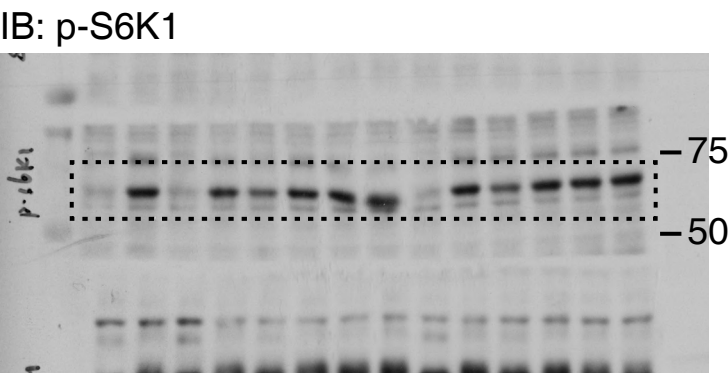
Extended Data Figure 10d



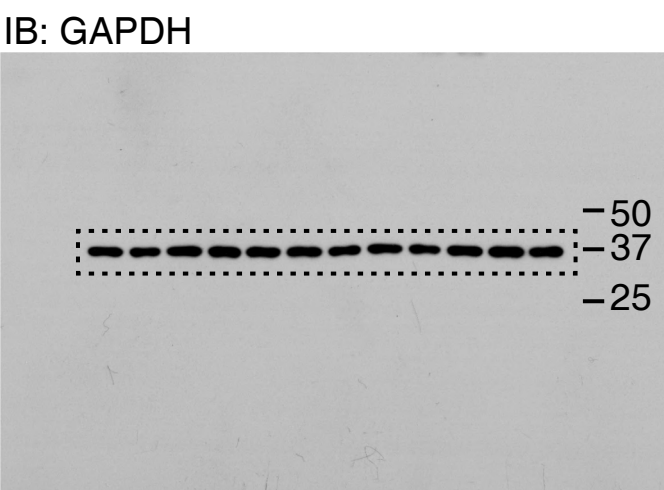
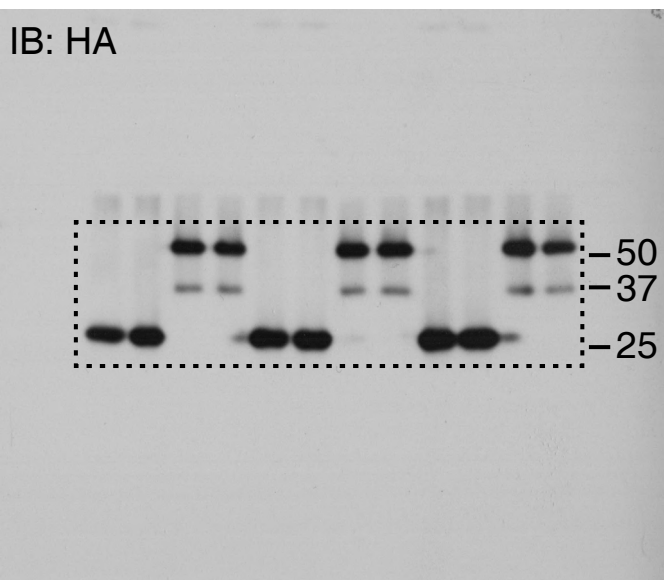
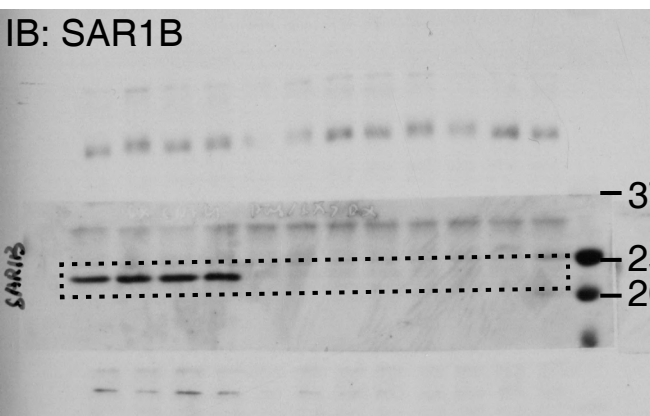
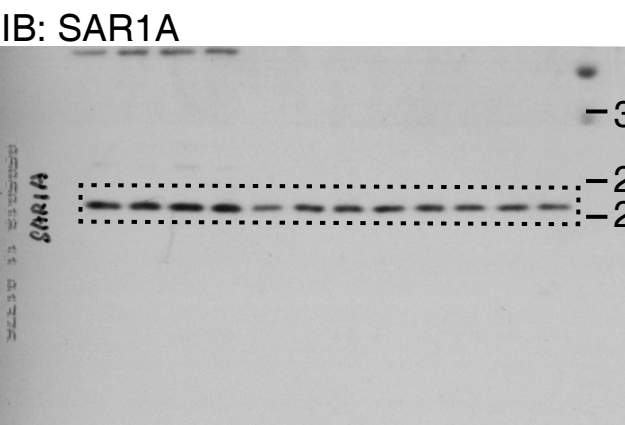
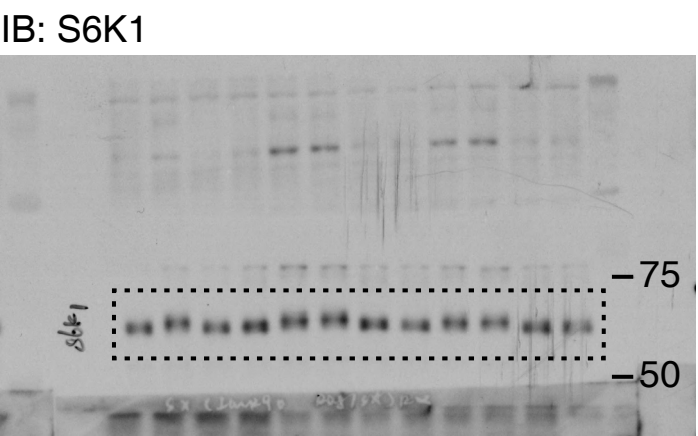
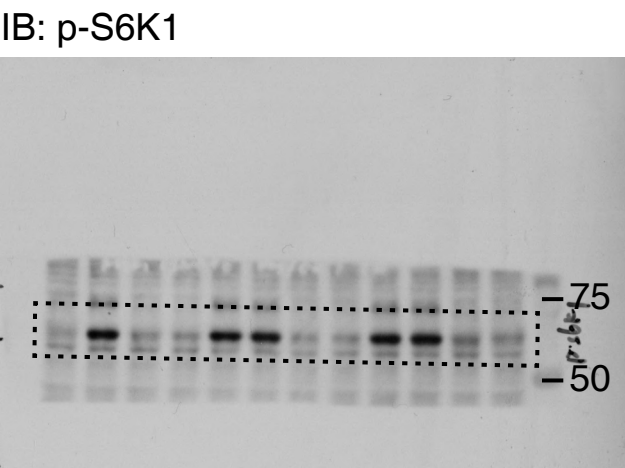
Extended Data Figure 10f



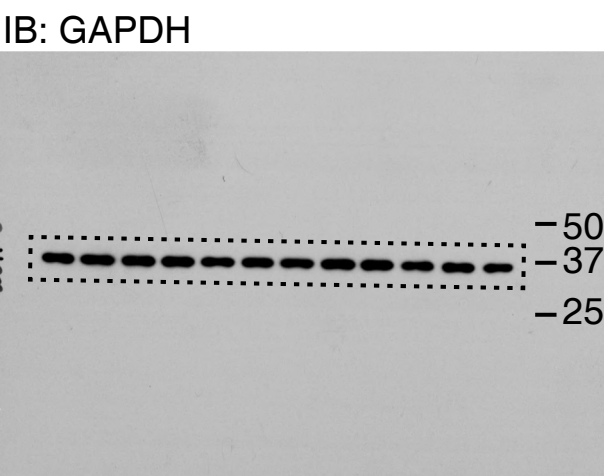
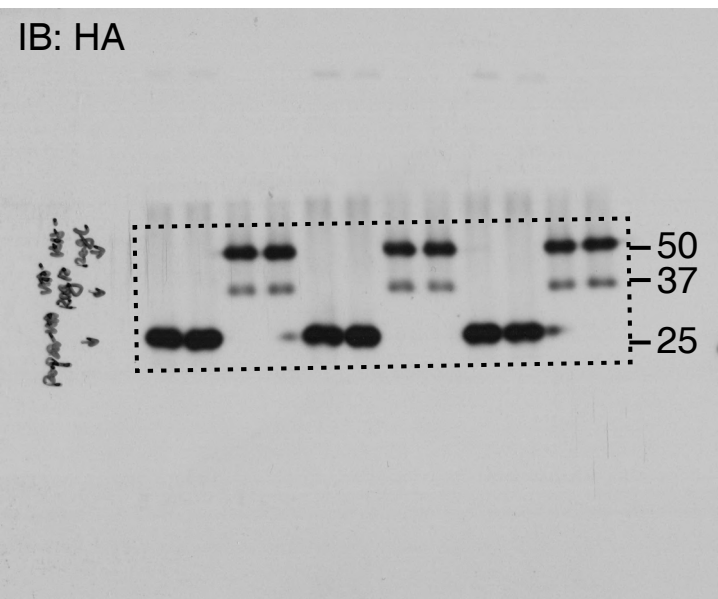
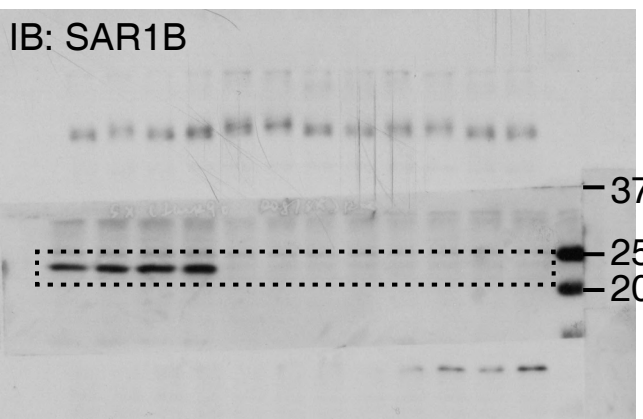
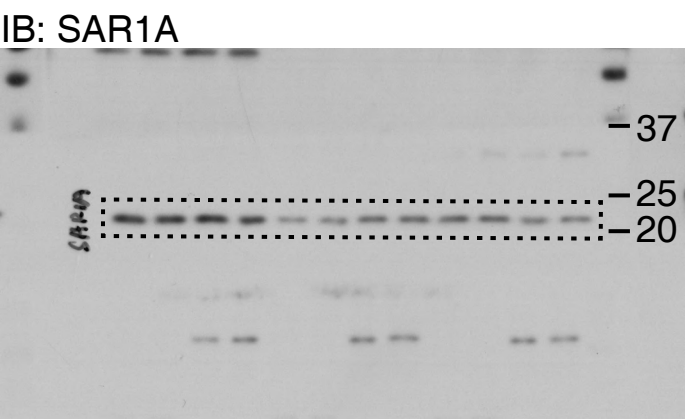
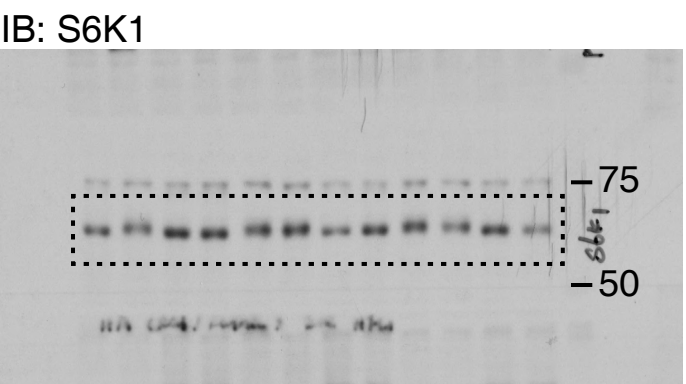
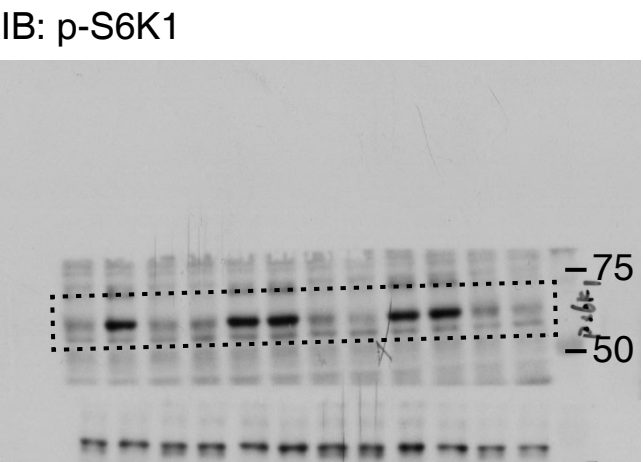
Extended Data Figure 10g



Extended Data Figure 10h

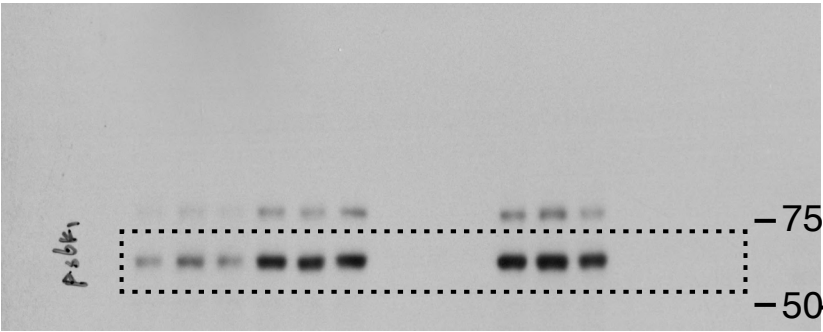


Extended Data Figure 10i

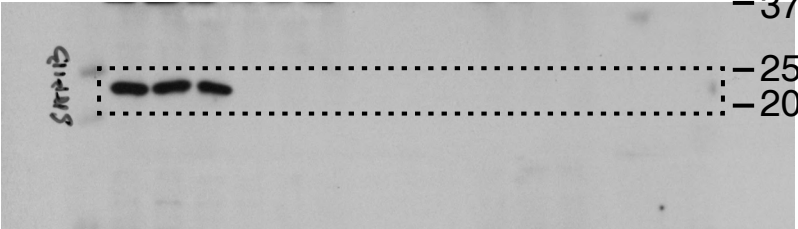


Extended Data Figure 12e

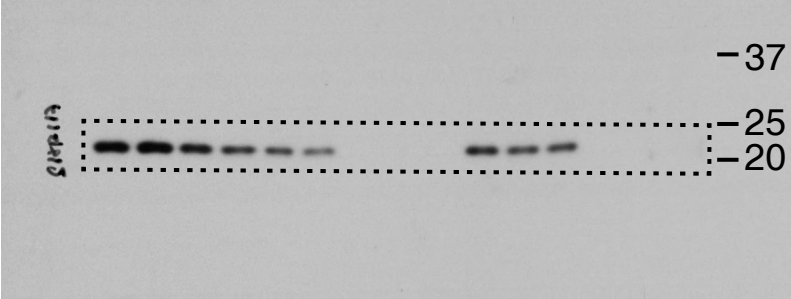
IB: p-S6K1



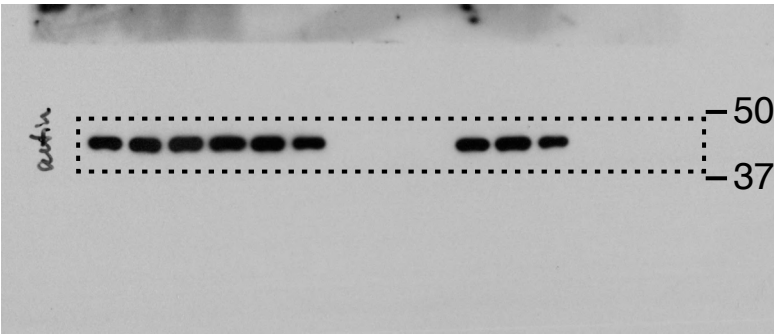
IB: SAR1B



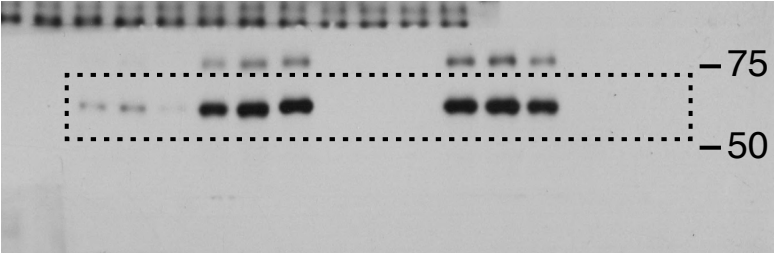
IB: SAR1A



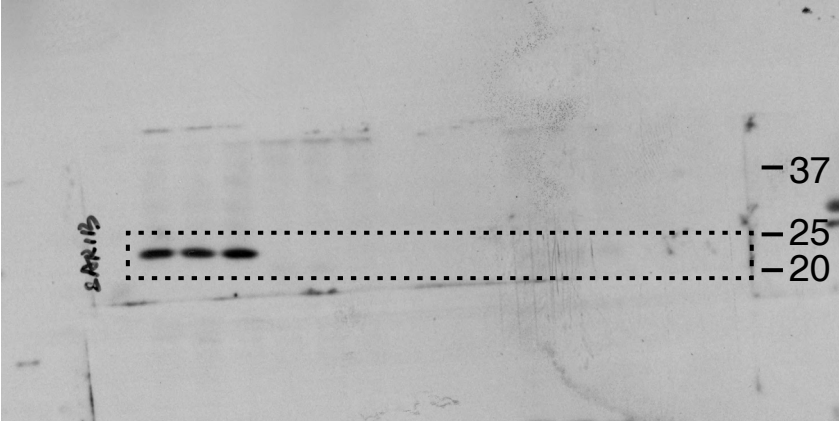
IB: β -Actin



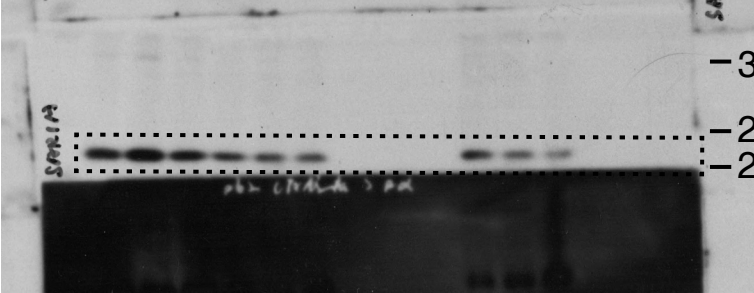
IB: p-S6K1



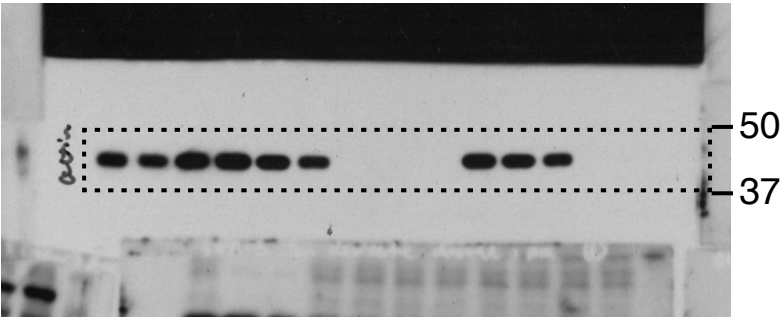
IB: SAR1B



IB: SAR1A

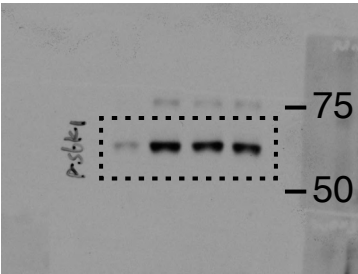


IB: β -Actin

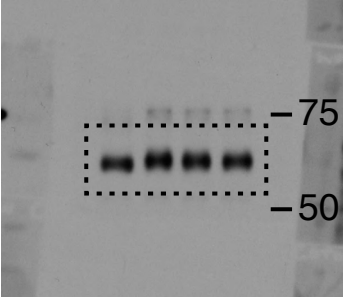


Extended Data Figure 12f

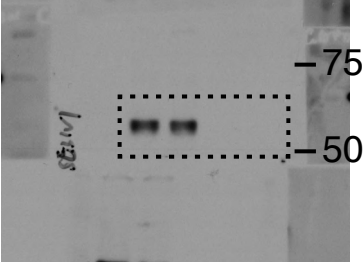
IB: p-S6K1



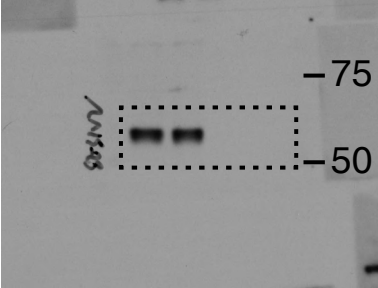
IB: S6K1



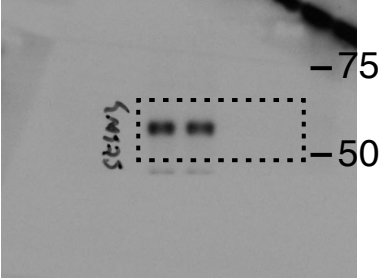
IB: Sestrin1



IB: Sestrin2



IB: Sestrin3



IB: GAPDH

