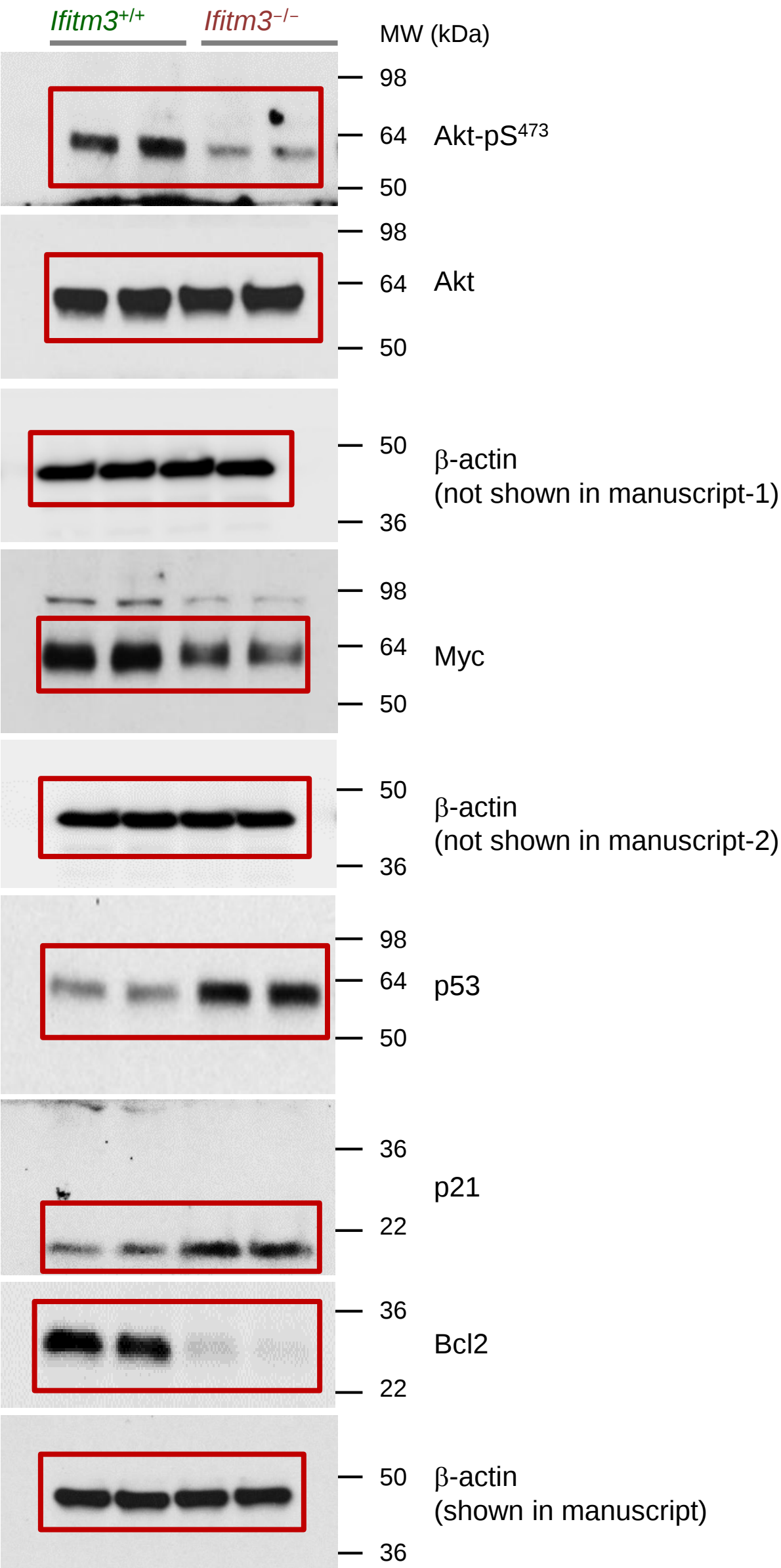


Figure 1c



p-Akt, Akt, p21 and β-actin (not shown in manuscript-1) were run on the same gel. p-Akt was stripped and reprobed for Akt. Akt was stripped and reprobed for β-actin. Myc, Bcl2 and β-actin (not shown in manuscript-2) were run on the same gel. Myc was stripped and reprobed for β-actin. p53 and β-actin (reprobed from p53, shown in manuscript) were run on the same gel. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Figure 2b

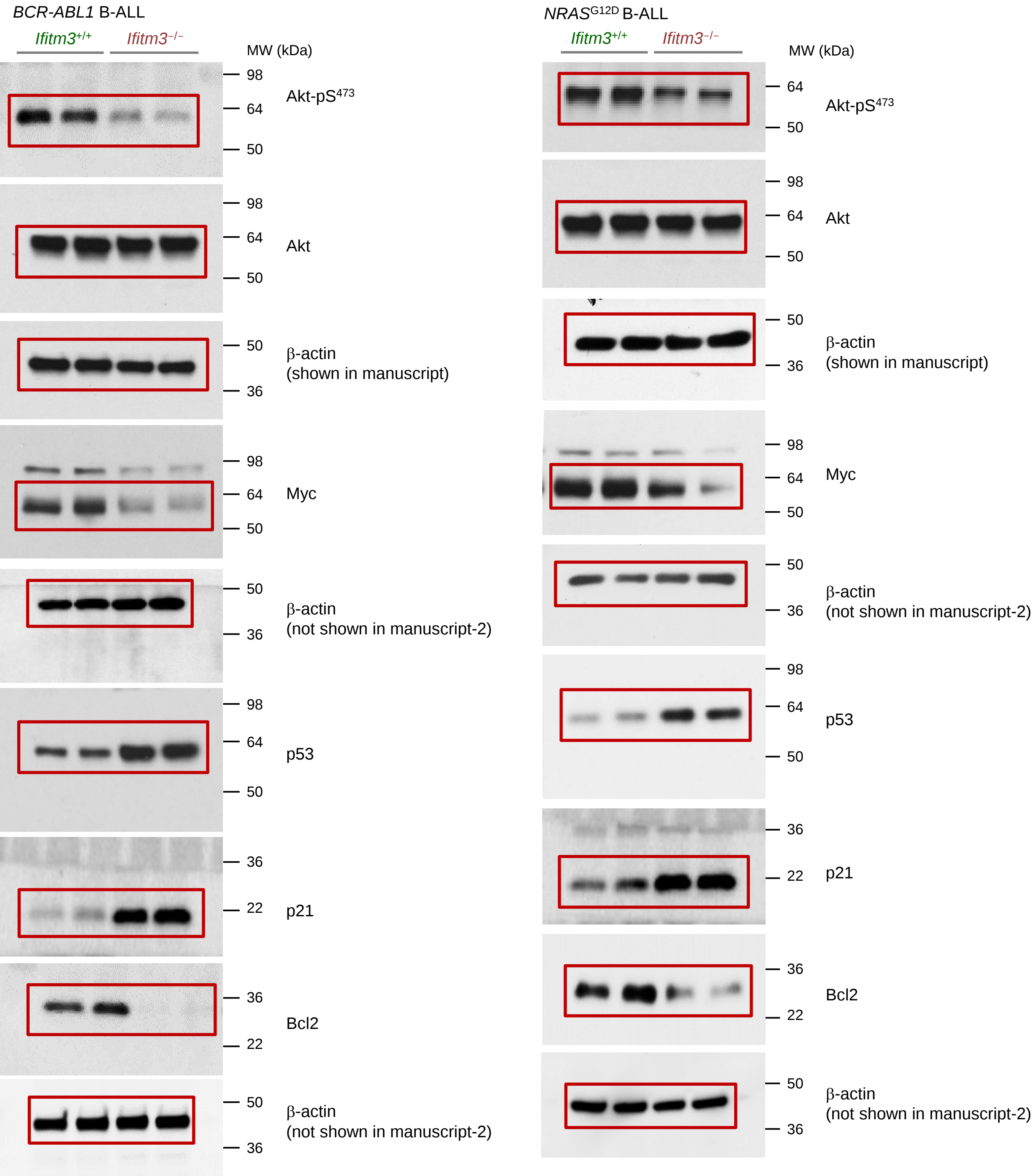
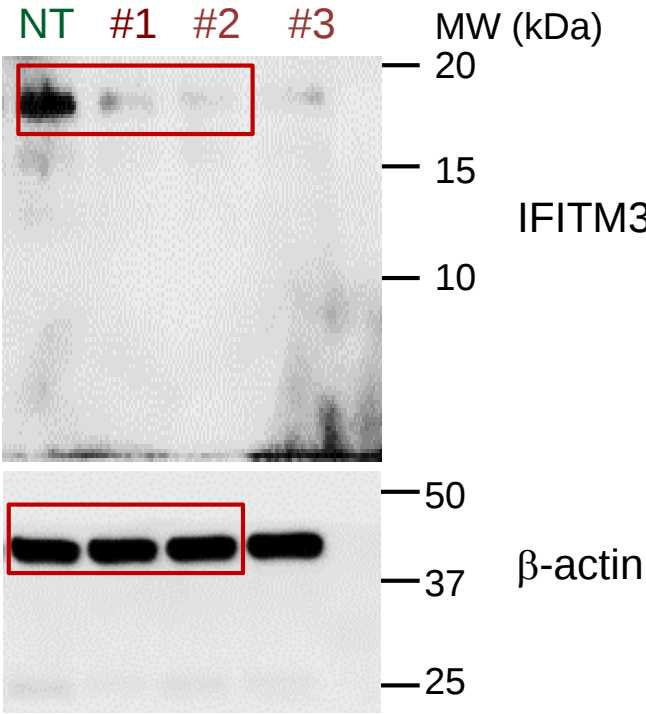
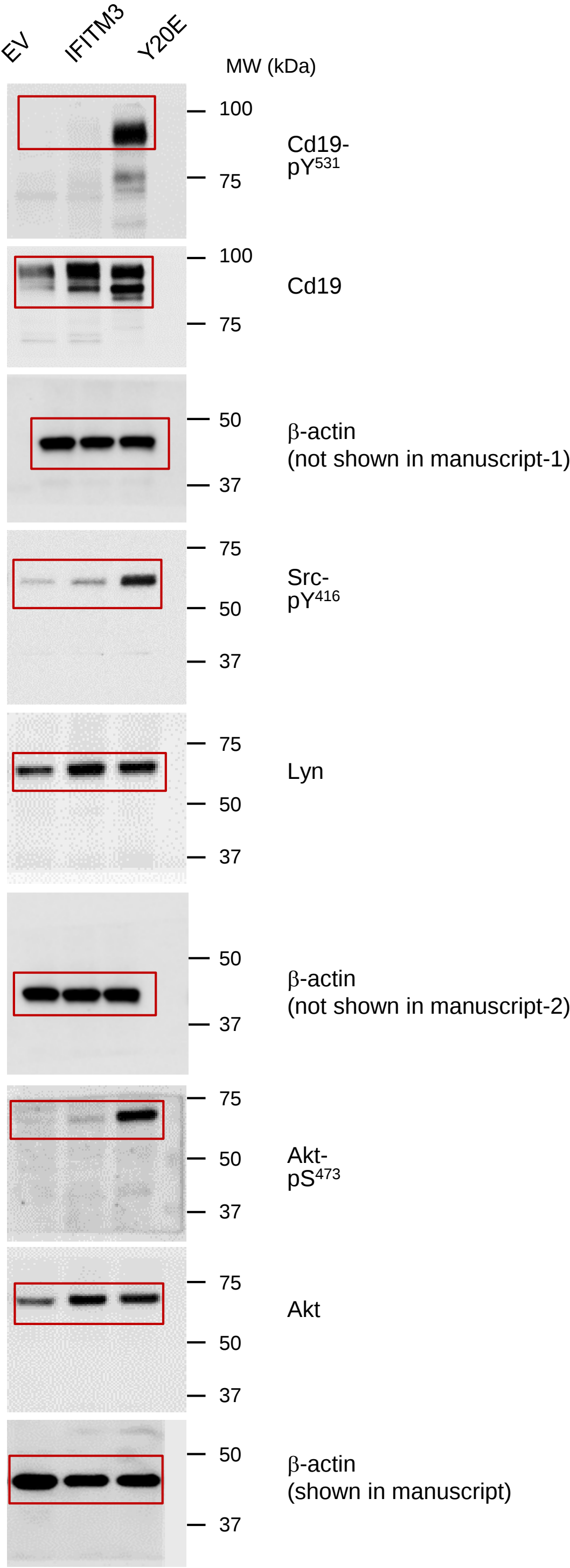


Figure 2f



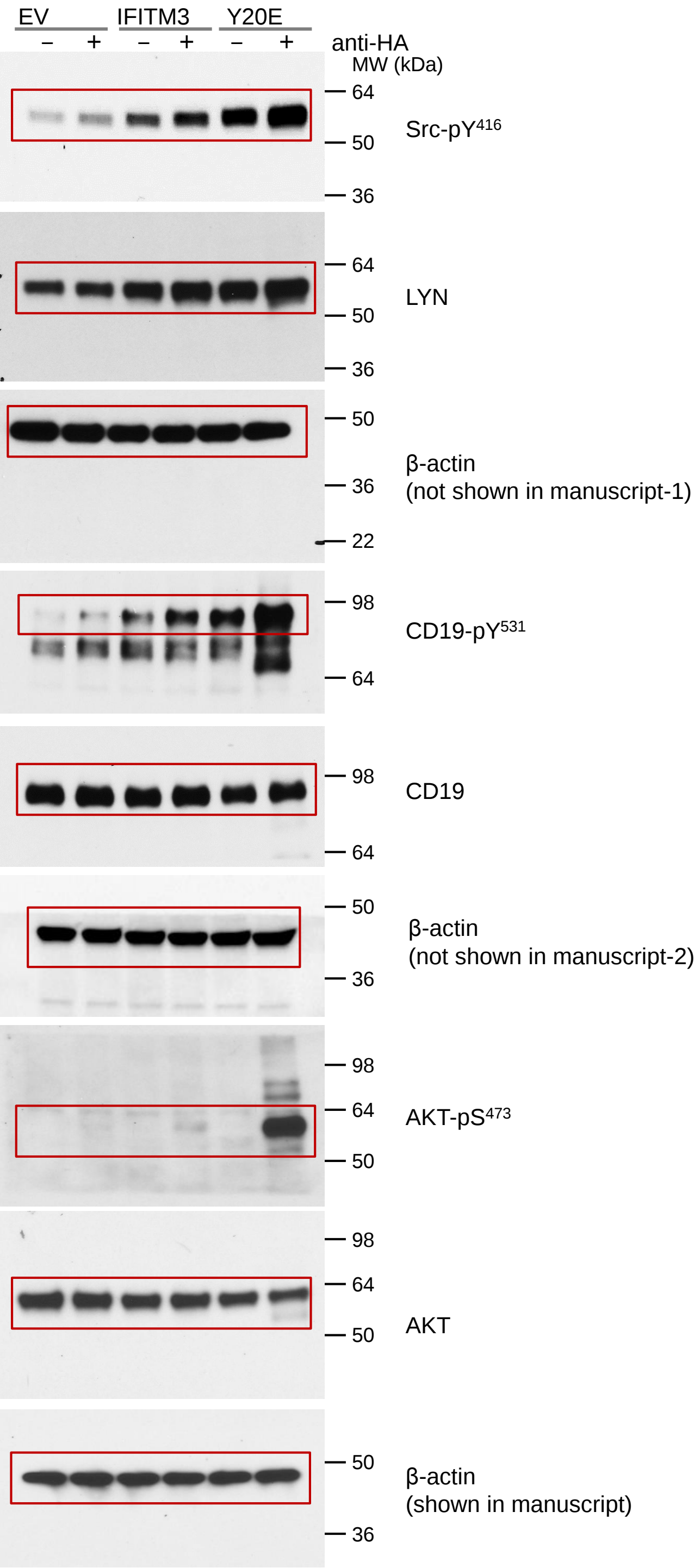
IFITM3 and β -actin were run on the same gel. All samples were derived from the same experiment and blots were processed in parallel.

Figure 2j



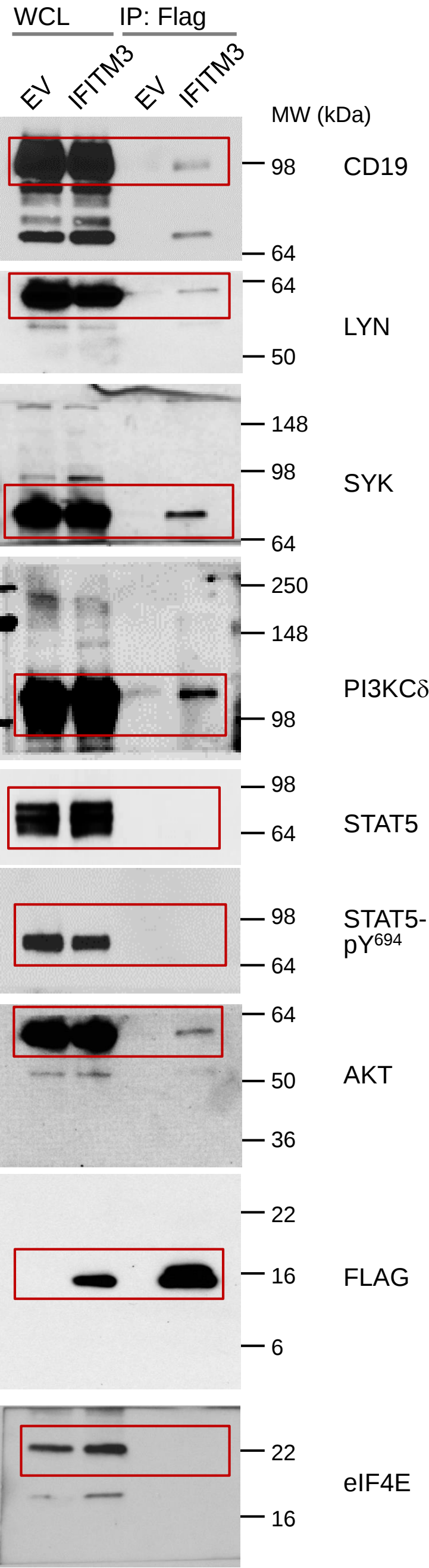
p-CD19, CD19 and β -actin (not shown in manuscript-1) were run on the same gel. p-CD19 was stripped and reprobed for CD19. p-Src, Lyn (reprobed from p-Src) and β -actin (reprobed from Lyn, not shown in manuscript-2) were run on the same gel. p-Akt, Akt (reprobed from p-Akt) and β -actin (reprobed from Akt, shown in manuscript) were run on the same gel. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Figure 3c



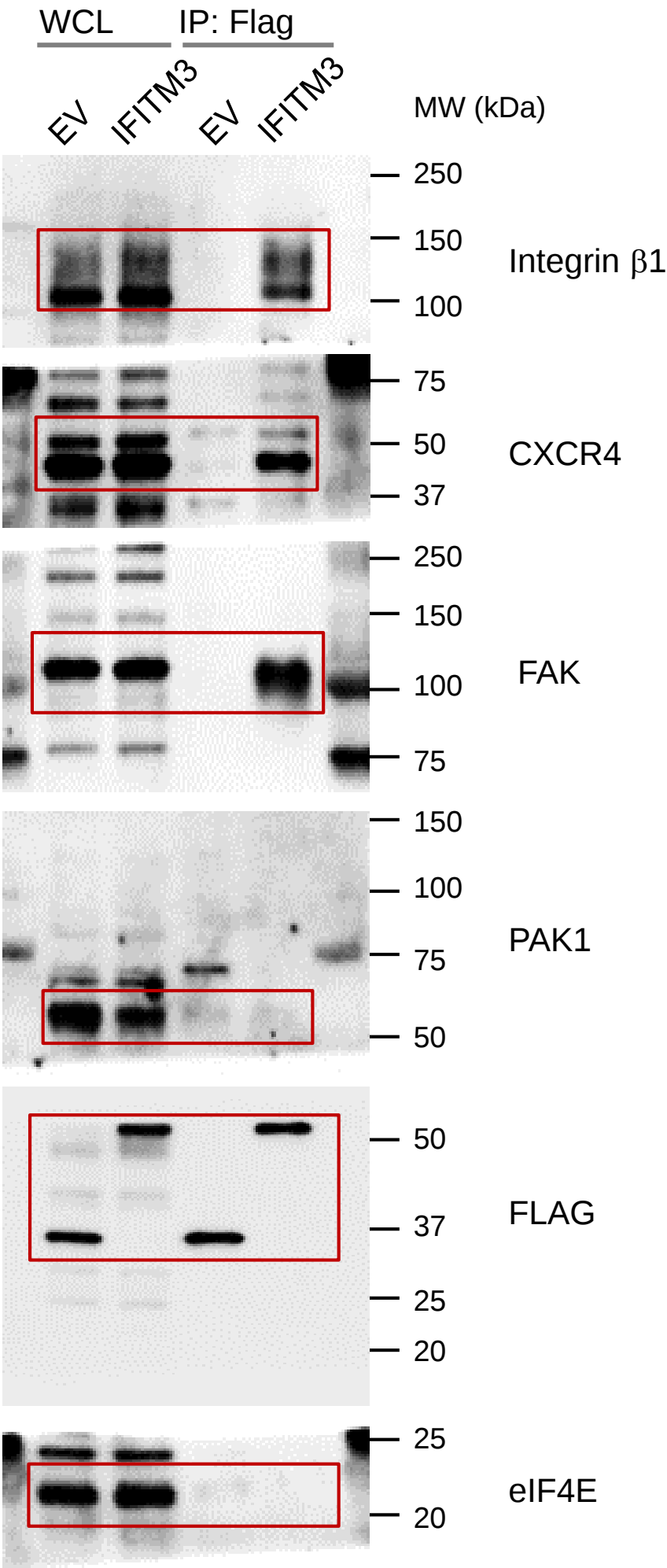
p-Src, Lyn and β-actin (not shown in manuscript-1) were run on the same gel. p-Src was stripped and reprobed for Lyn. Lyn was stripped and reprobed for β-actin. p-CD19, CD19 and β-actin (not shown in manuscript-2) were run on the same gel. p-CD19 was stripped and reprobed for CD19. p-Akt, Akt (reprobed from p-Akt) and β-actin (shown in manuscript) were run on the same gel. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Figure 3f



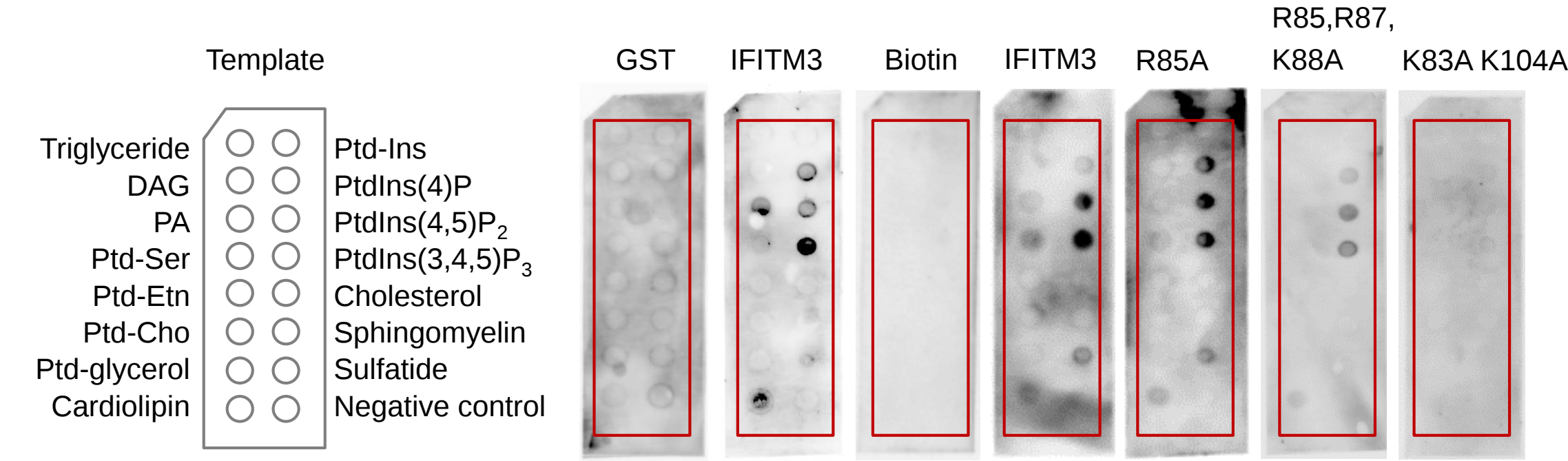
CD19, LYN and eIF4E were run on the same gel. SYK, AKT and FLAG were run on the same gel. PI3KCδ, p-STAT5 and STAT5 were run on the same gel. PI3KCδ was stripped and reprobed for p-STAT5. p-STAT5 was stripped and reprobed for STAT5. All samples were derived from the same experiment and blots were processed in parallel.

Figure 3g



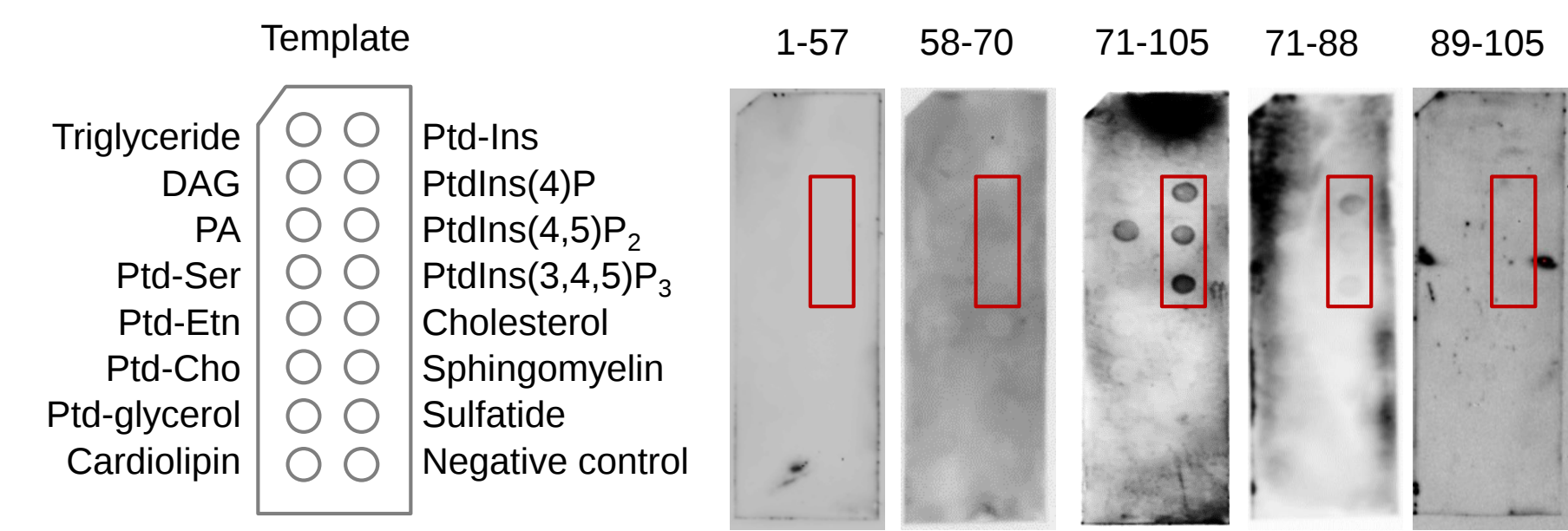
Integrin β1 and CXCR4 were run on the same gel. FAK and FLAG were run on the same gel. PAK1 and eIF4E were run on the same gel. All samples were derived from the same experiment and blots were processed in parallel.

Figure 4d



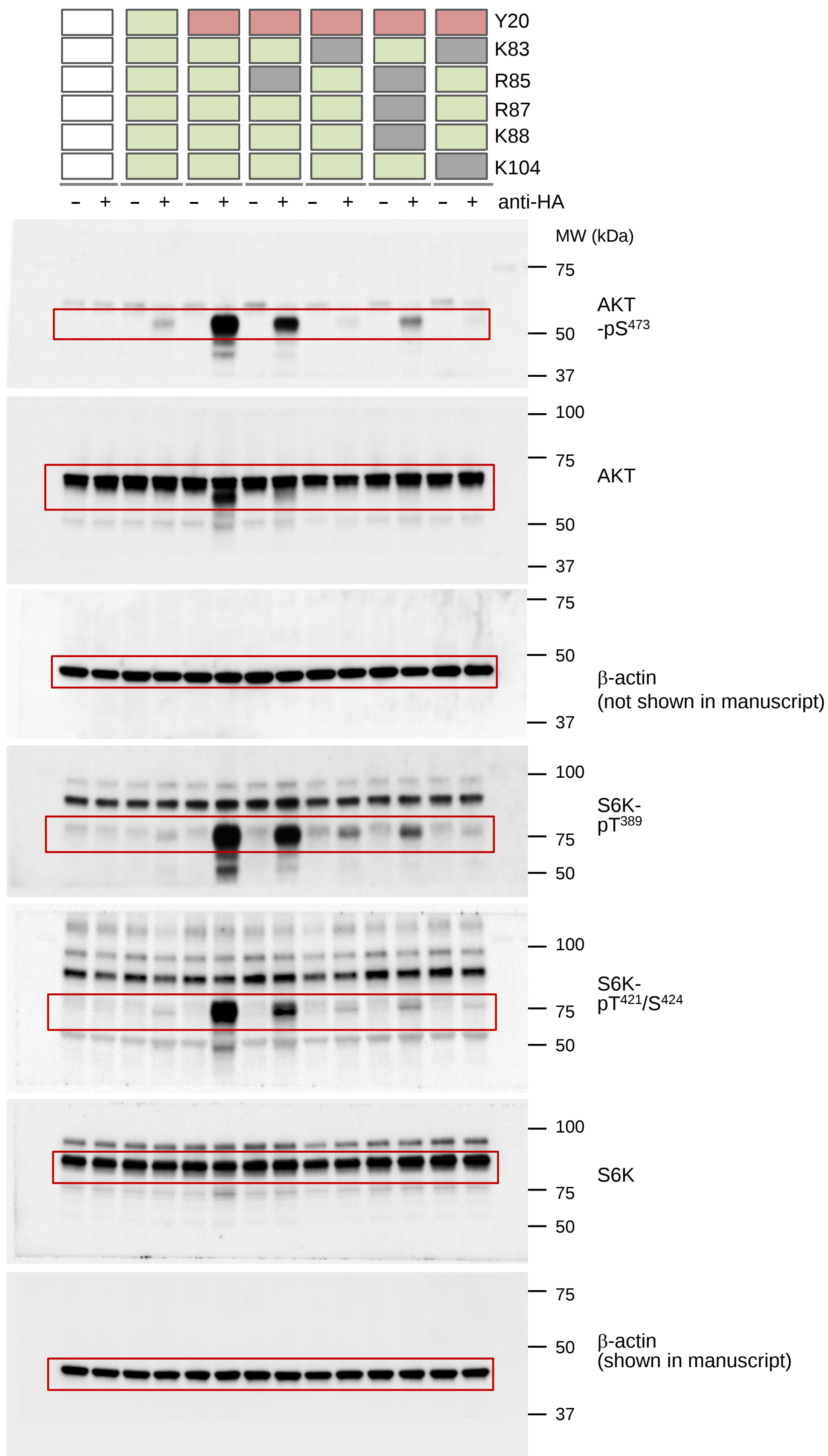
All samples were derived from the same experiment and blots were processed in parallel.

Figure 4e



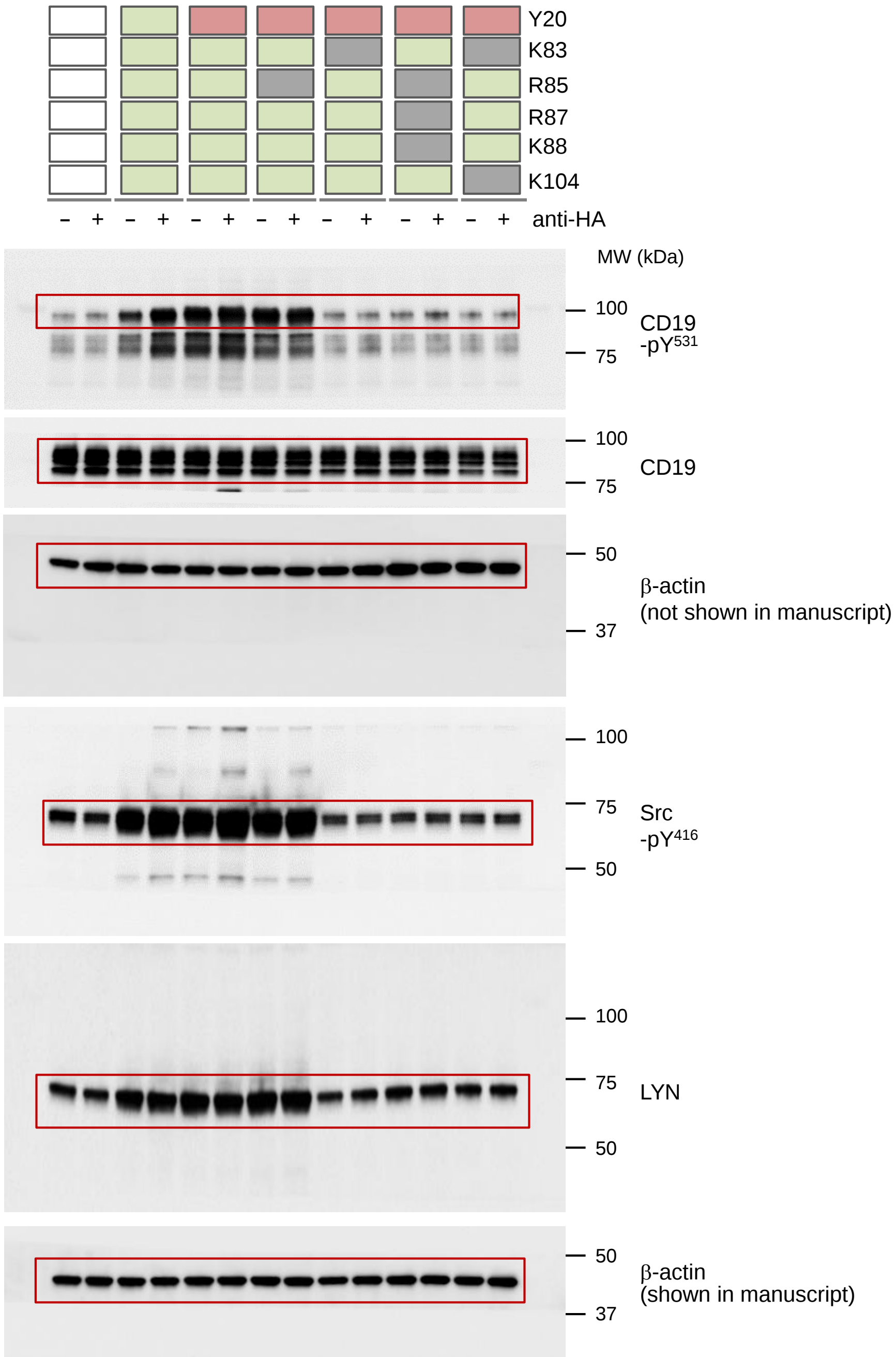
All samples were derived from the same experiment and blots were processed in parallel.

Figure 4j



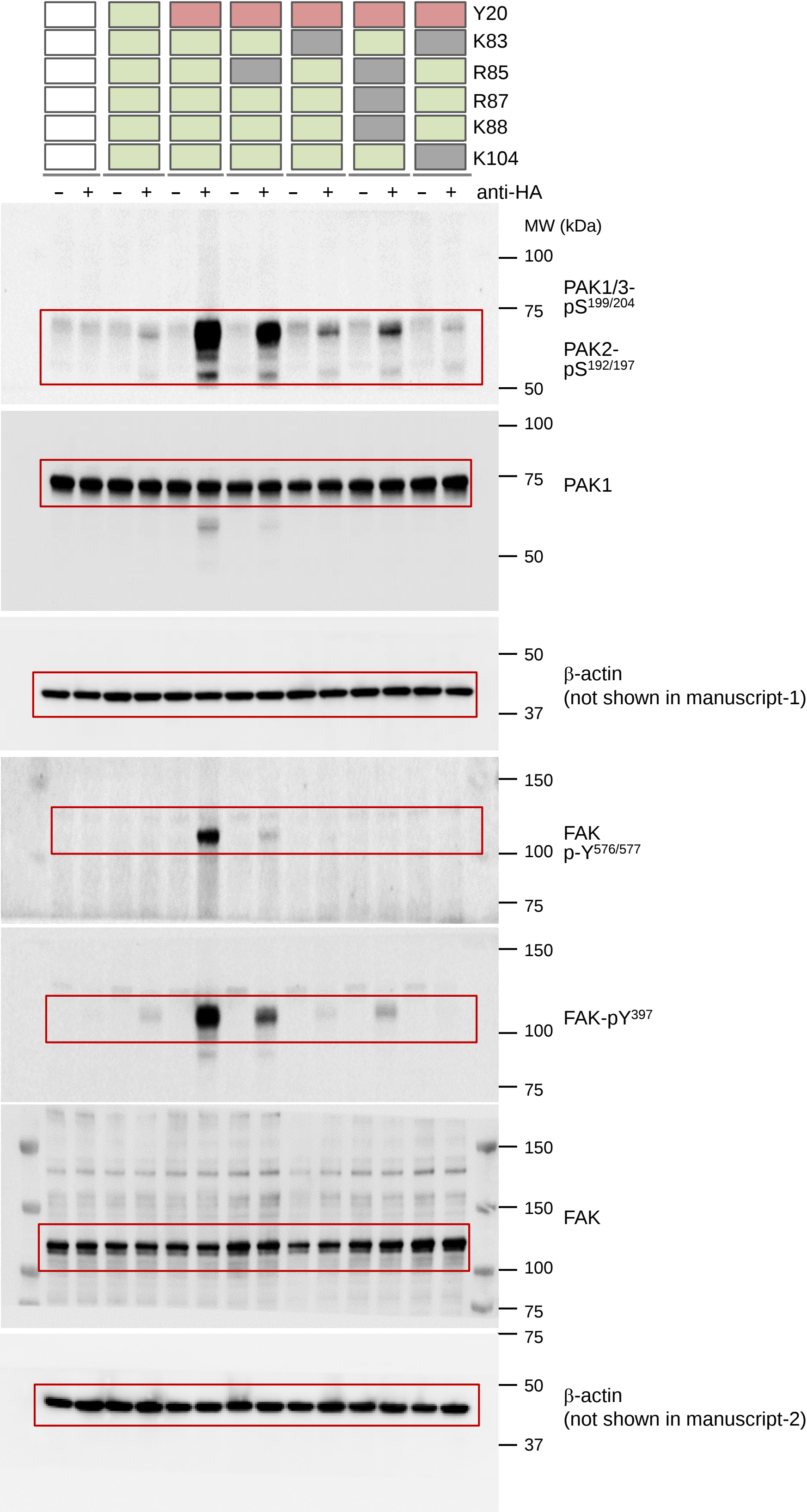
p-AKT, AKT and β -actin (not shown in manuscript) were run on the same gel. p-AKT was stripped and reprobed for AKT. AKT was stripped and reprobed for β -actin. p-S6K, S6K (reprobed from p-S6K) and β -actin (reprobed from S6K, shown in manuscript) were run on the same gel. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Figure 4k



p-CD19, CD19 and β -actin (not shown in manuscript) were run on the same gel. p-CD19 was stripped and reprobed for CD19. p-Src, LYN (reprobed from p-S6K) and β -actin (reprobed from LYN, shown in manuscript) were run on the same gel. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Figure 4l



MW (kDa)

100

75

50

PAK1/3-

pS^{199/204}

PAK2-

pS^{192/197}

100

75

50

PAK1

50

37

β -actin

(not shown in manuscript-1)

150

100

75

FAK

p-Y^{576/577}

150

100

75

FAK-pY³⁹⁷

150

150

100

75

75

FAK

50

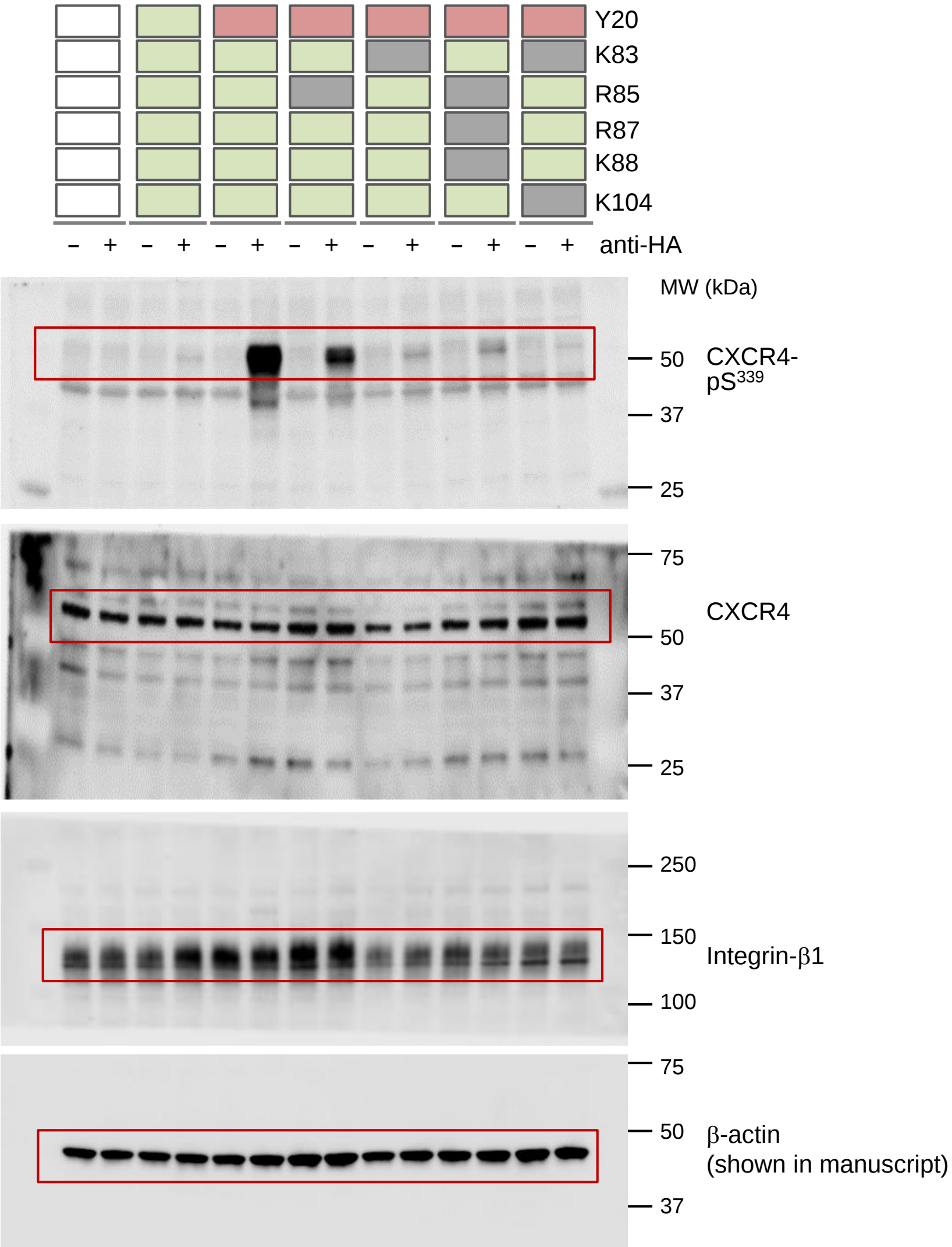
37

β -actin

(not shown in manuscript-2)

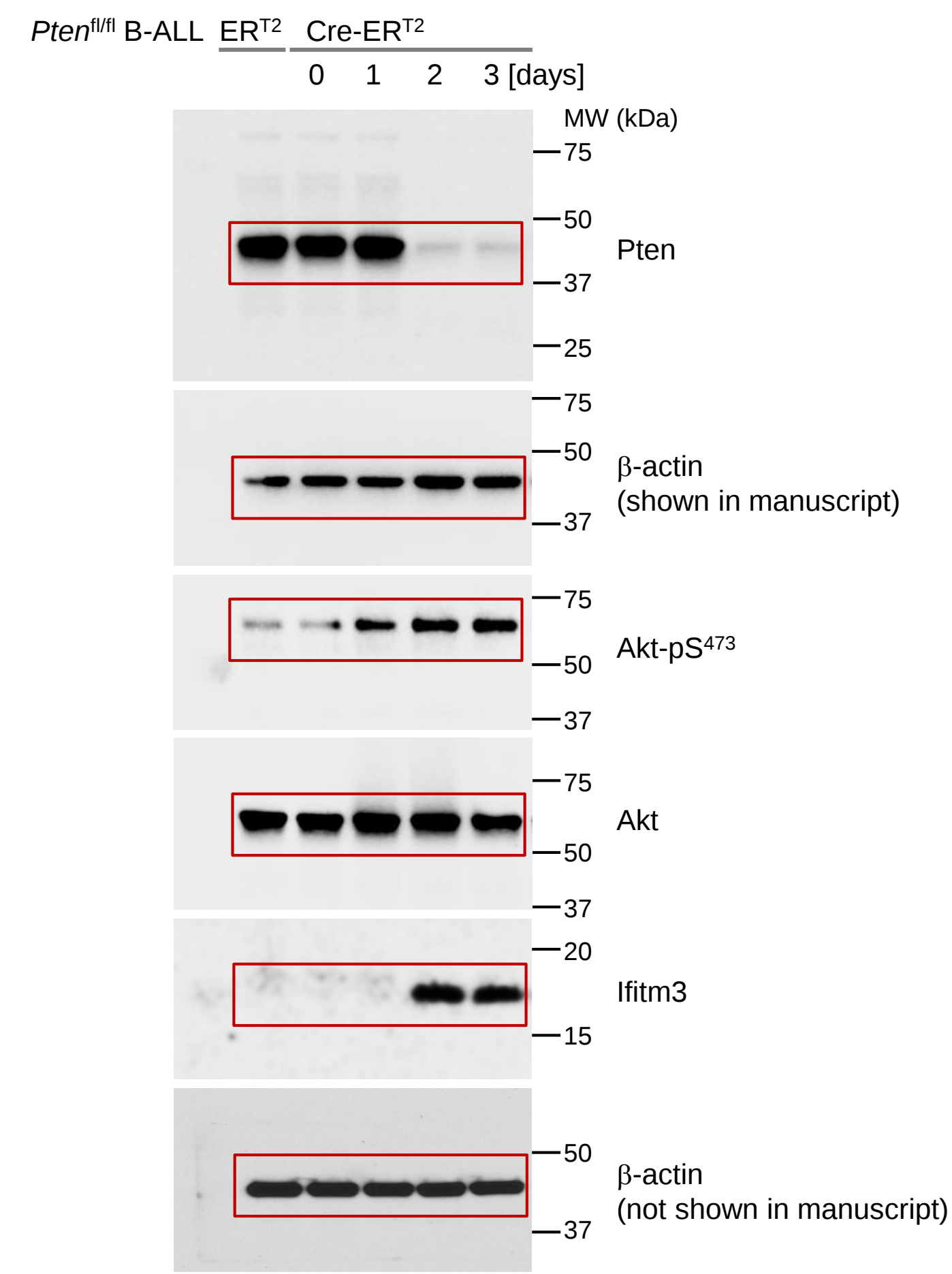
p-PAK1/2/3, PAK1 and β -actin (not shown in manuscript-1) were run on the same gel. p-PAK1/2/3 was stripped and reprobed for PAK1. p-PAK1/2/3 was stripped and reprobed for β -actin. p-FAK, FAK (reprobed from p-FAK) and β -actin (not shown in manuscript-2) were run on the same gel. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Figure 4l (continued)



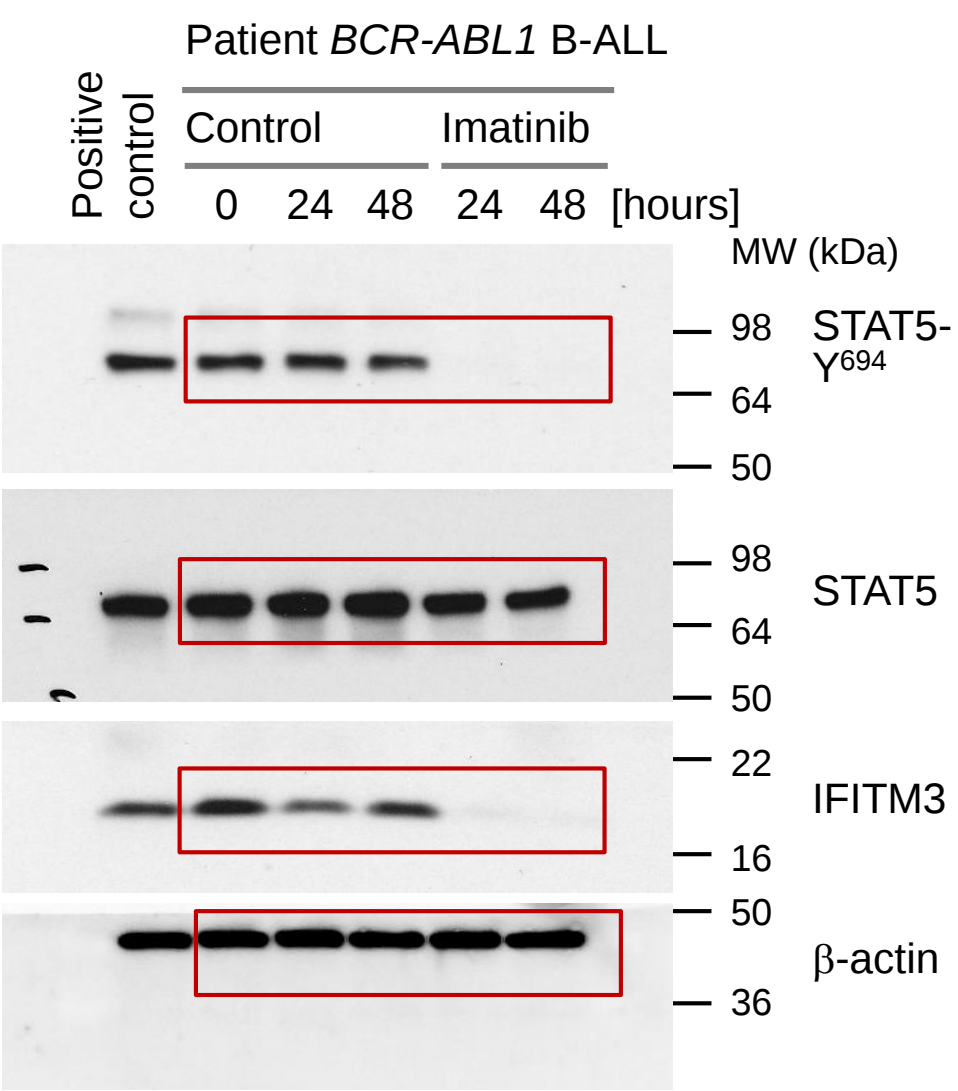
Integrin- $\beta 1$, p-CXCR4, CXCR4 and β -actin (shown in manuscript) were run on the same gel. p-CXCR4 was stripped and reprobed for CXCR4. CXCR4 was stripped and reprobed for β -actin. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 1c



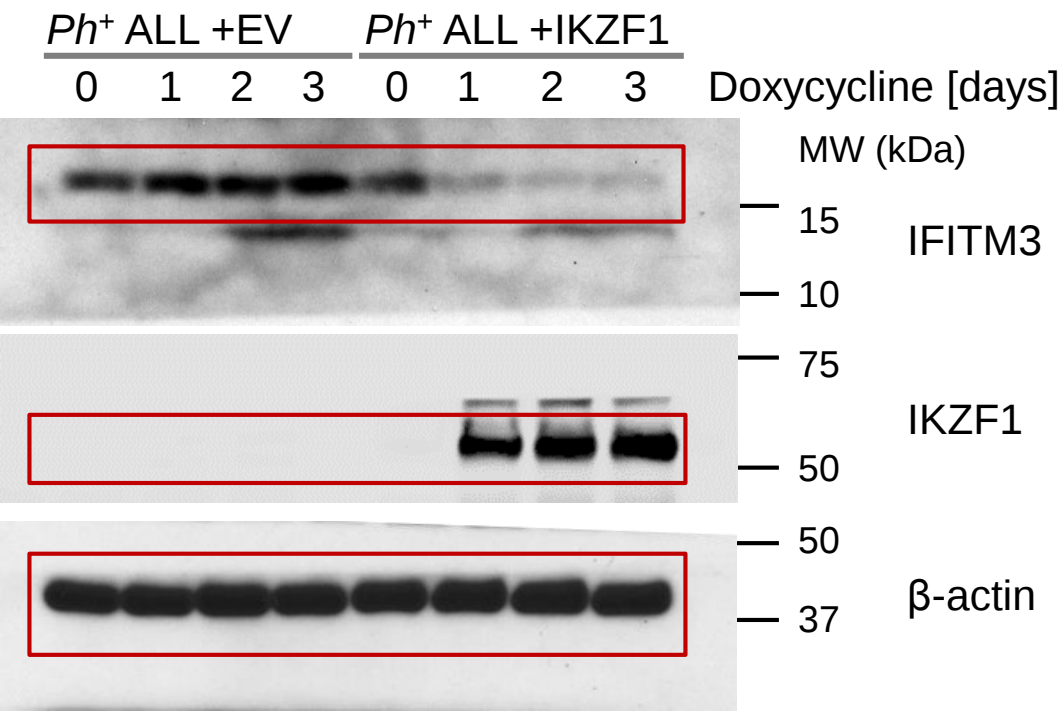
Pten and β -actin (shown in manuscript) were run on the same gel. *Pten* was stripped and reprobed for β -actin. p-Akt, Akt and β -actin (not shown in manuscript) were run on the same gel. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 1d



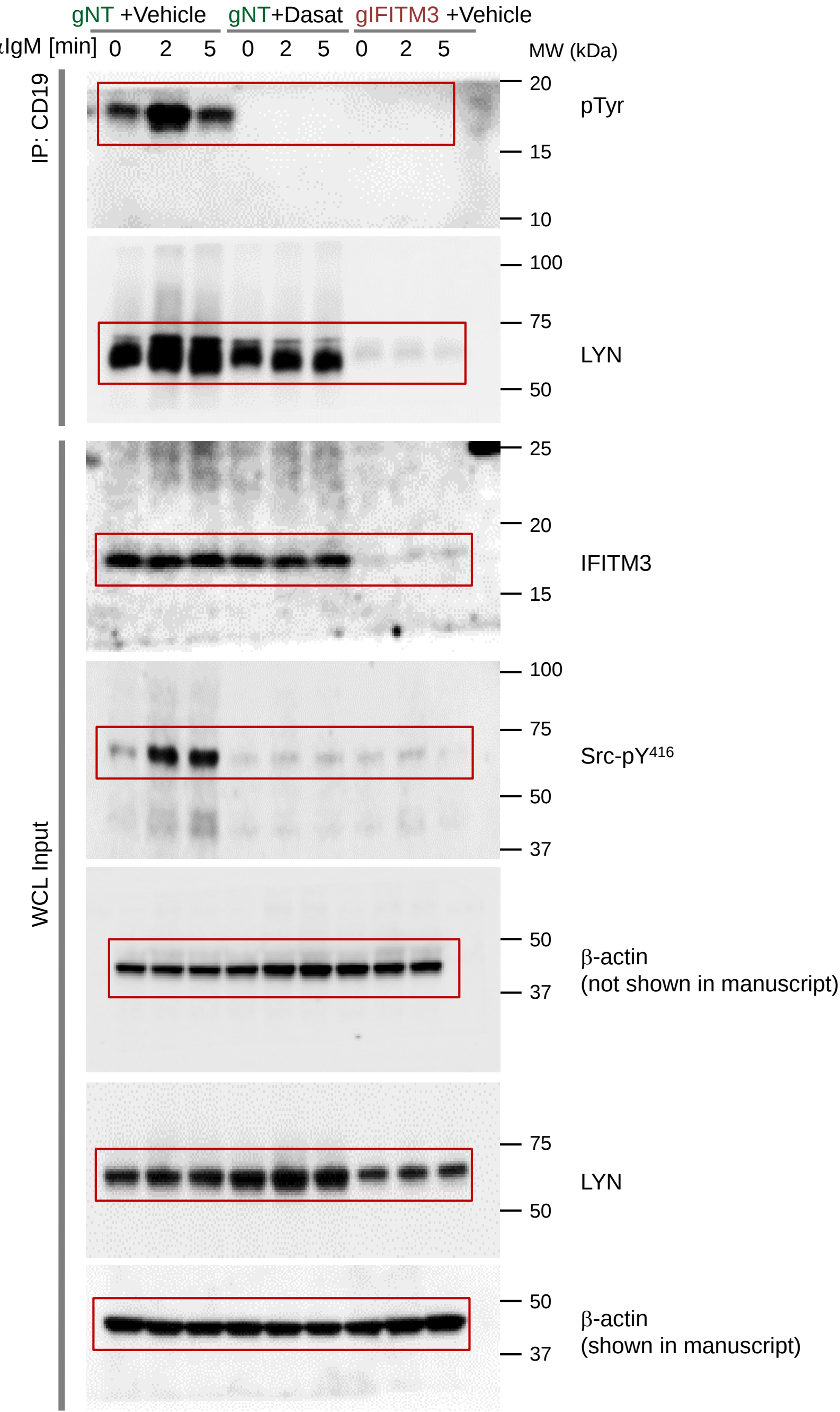
p-STAT5, STAT5, β -actin and IFITM3 were run on the same gel. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 1n



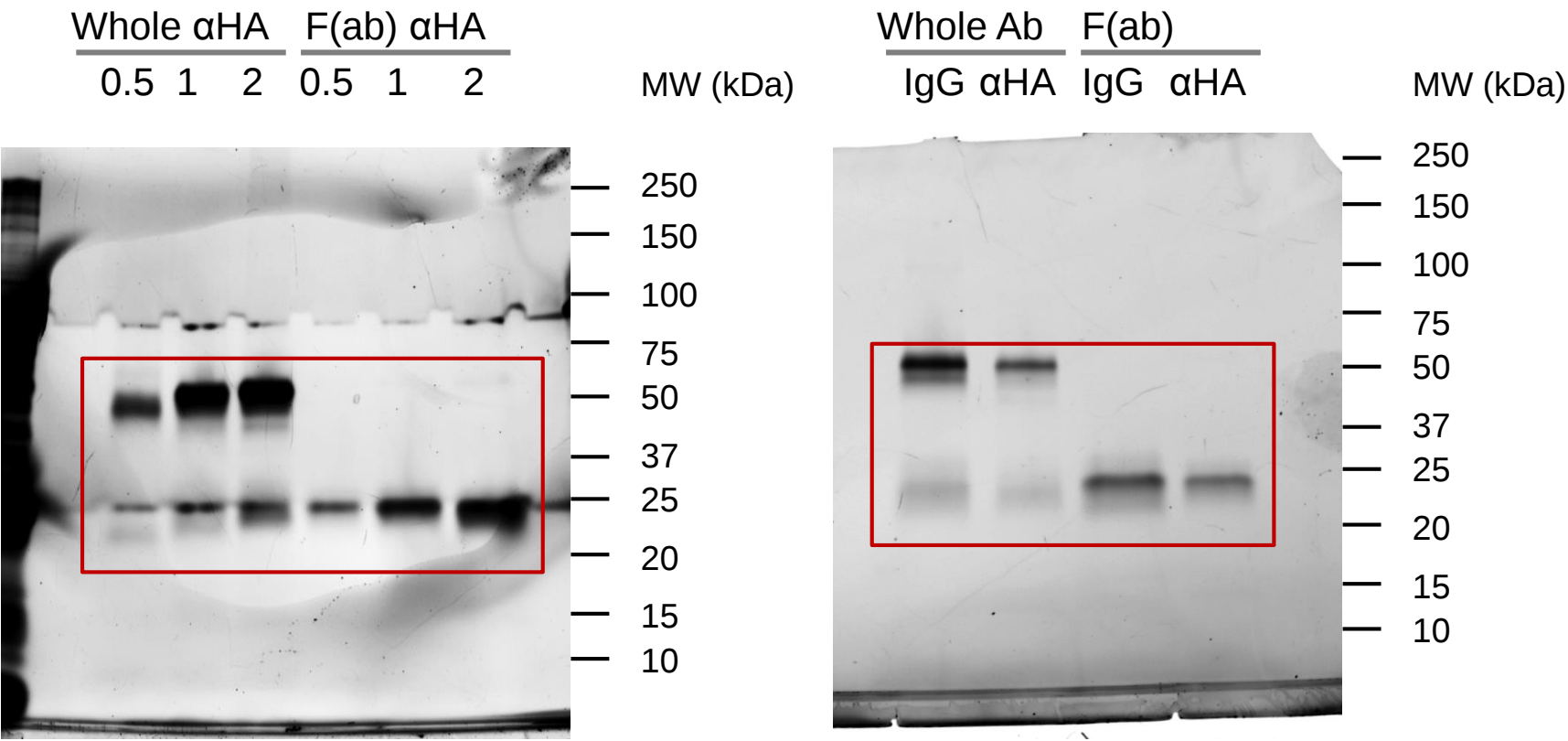
IFITM3, IKZF1 and β -actin were run on the same gel. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 2e

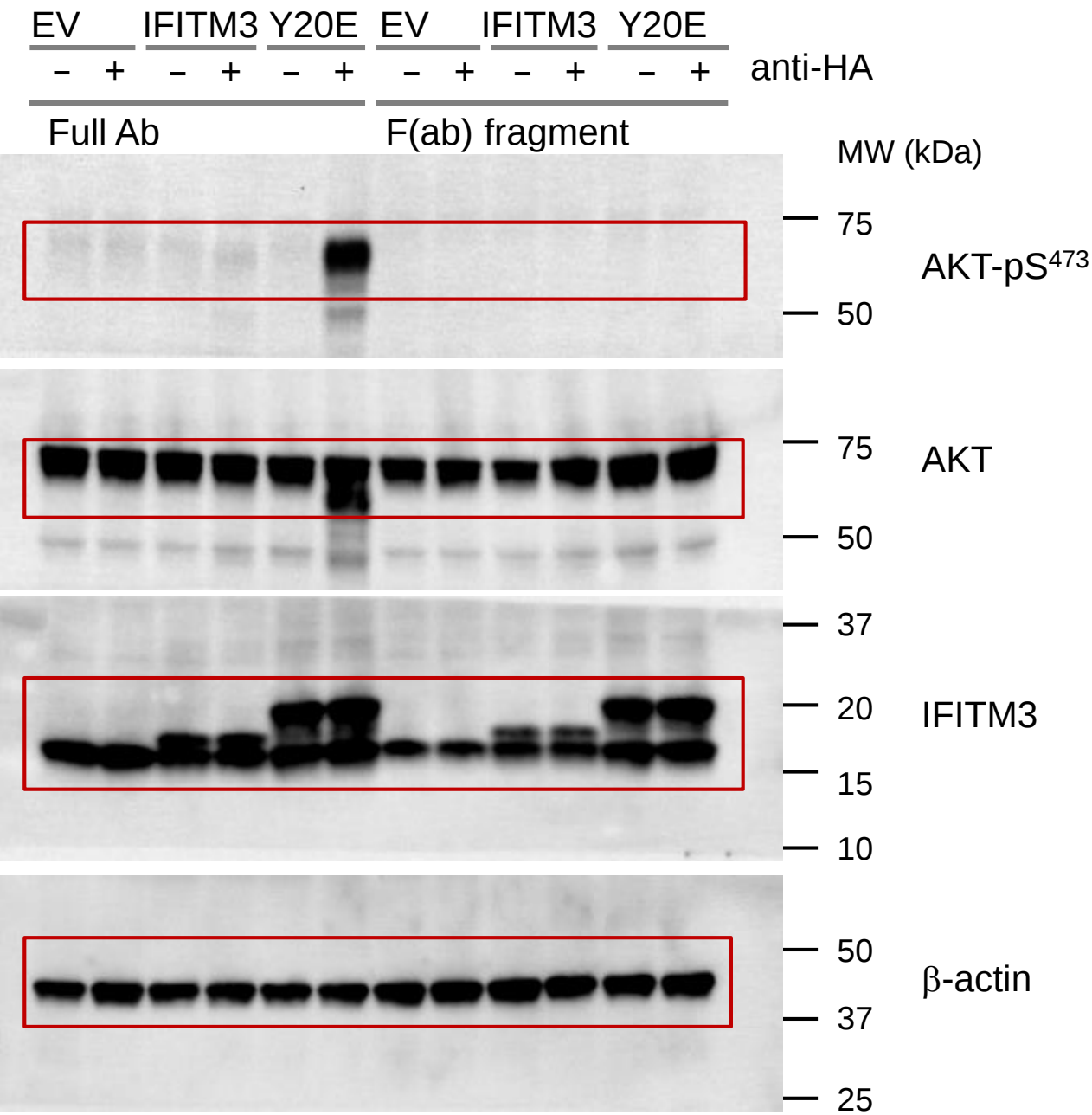


p-Tyr and Lyn were run on the same gel. p-Src, β-actin (not shown in manuscript) and IFITM3 were run on the same gel. p-Src was stripped and reprobed for β-actin. LYN and β-actin (reprobed from LYN, shown in manuscript) were run on the same gel. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 4b

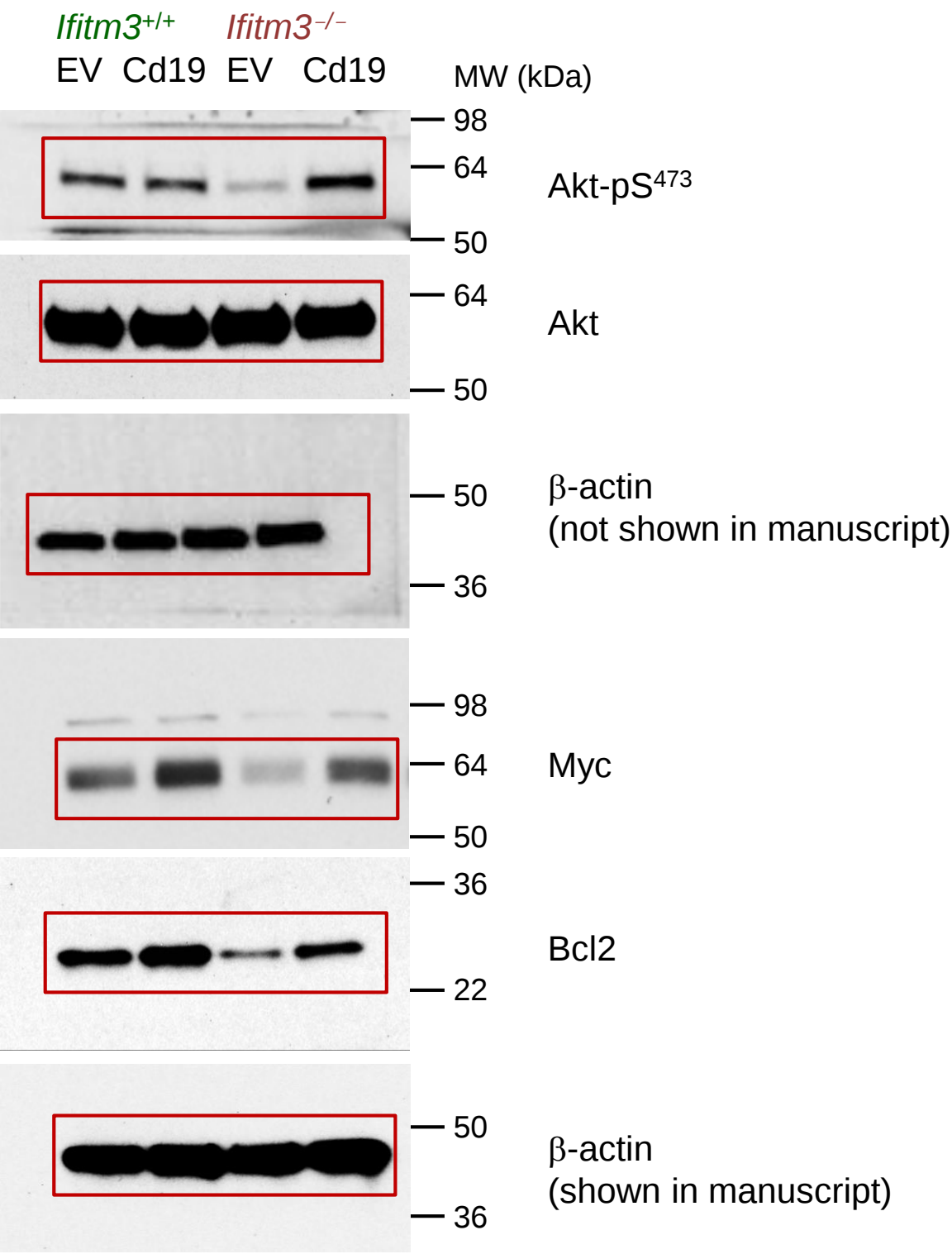


Whole αHA and F(ab) αHA were run on the same gel. All samples were derived from the same experiment and blots were processed in parallel.



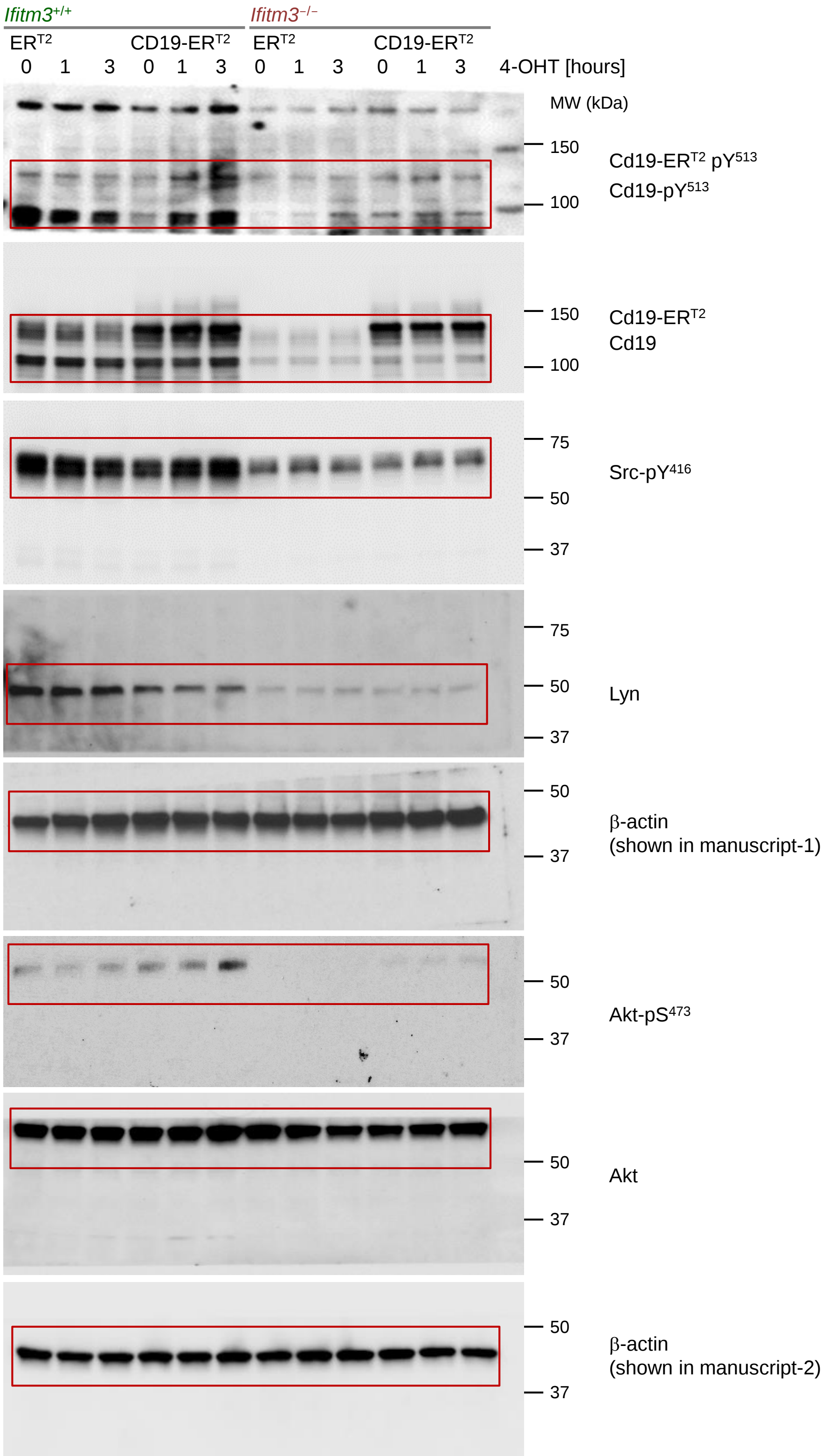
p-AKT, AKT, IFITM3 and β-actin were run on the same gel. p-AKT was stripped and reprobed for AKT. AKT was stripped and reprobed for β-actin. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 5b



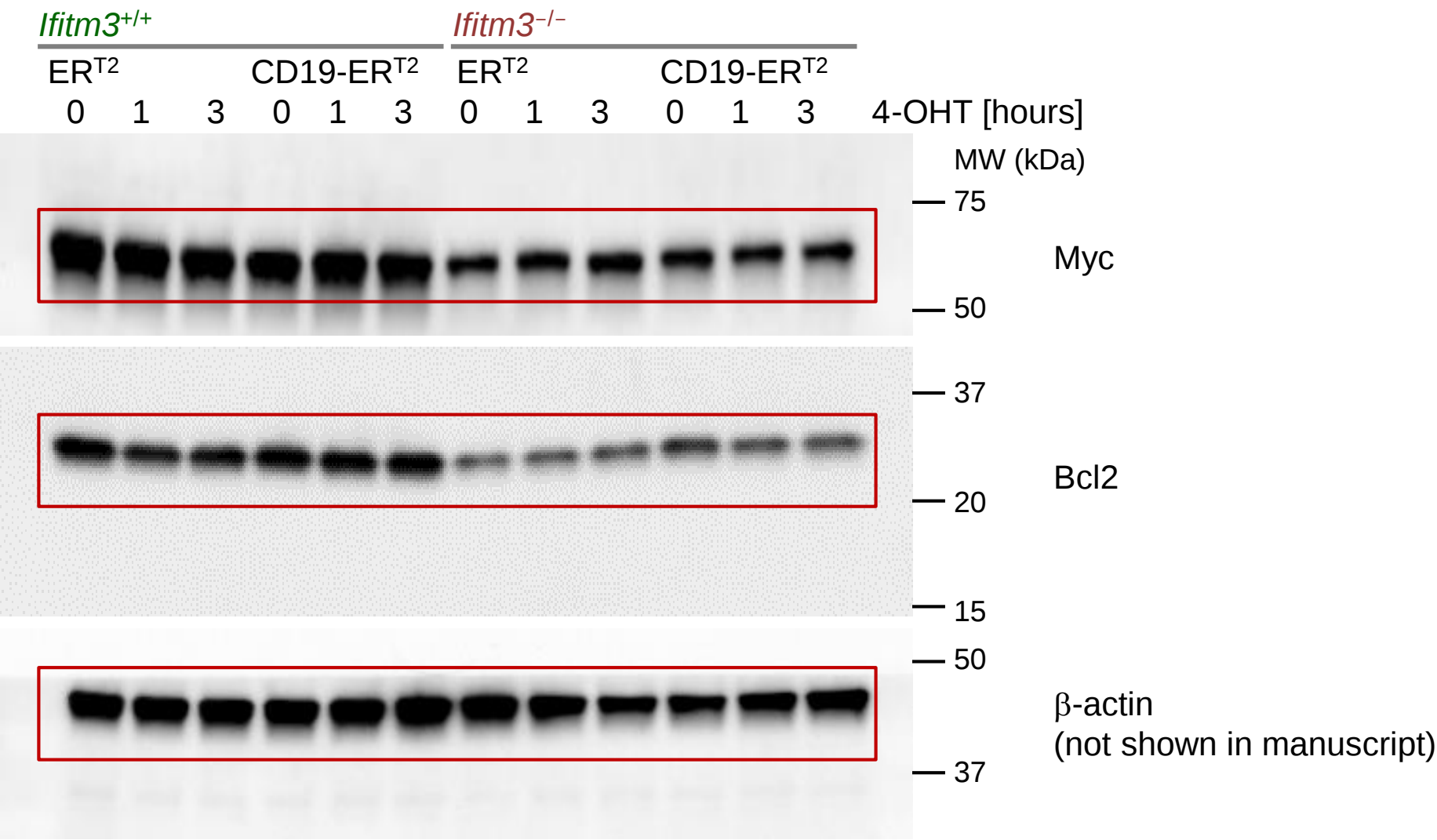
p-Akt, Akt and β-actin (not shown in manuscript) were run on the same gel. p-Akt was stripped and reprobed for Akt. Akt was stripped and reprobed for β-actin. Myc, Bcl2 and β-actin (shown in manuscript) were run on the same gel. Myc was stripped and reprobed for β-actin. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 5h



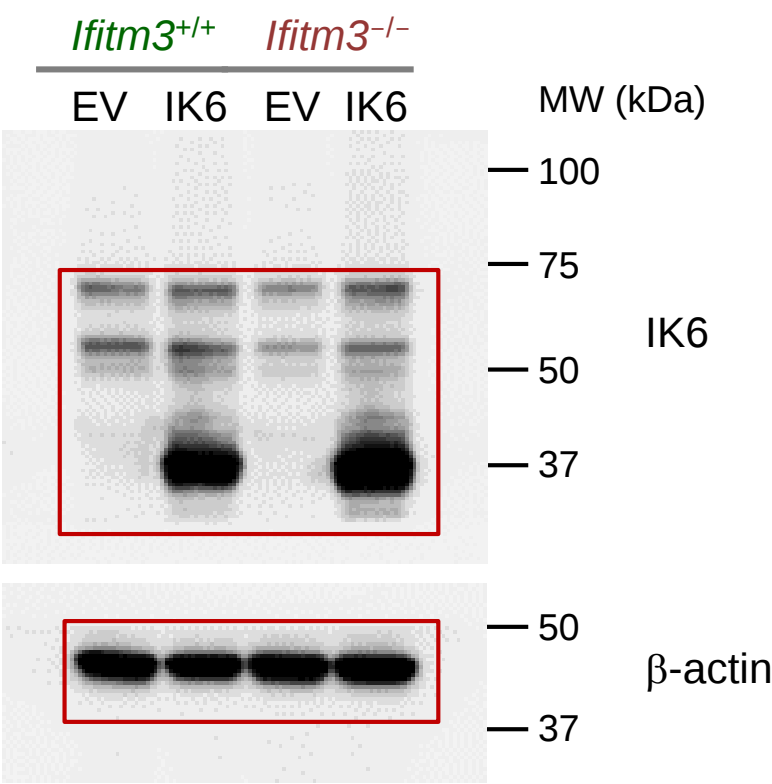
p-CD19, CD19, p-Src, Lyn and β-actin (shown in manuscript-1) were run on the same gel. p-CD19 was stripped and reprobed for CD19. p-Src was stripped and reprobed for Lyn. Lyn was stripped and reprobed for β-actin. p-Akt, Akt (reprobed from p-Akt) and β-actin (reprobed from Akt, shown in manuscript-2). were run on the same gel. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 5h (continued)



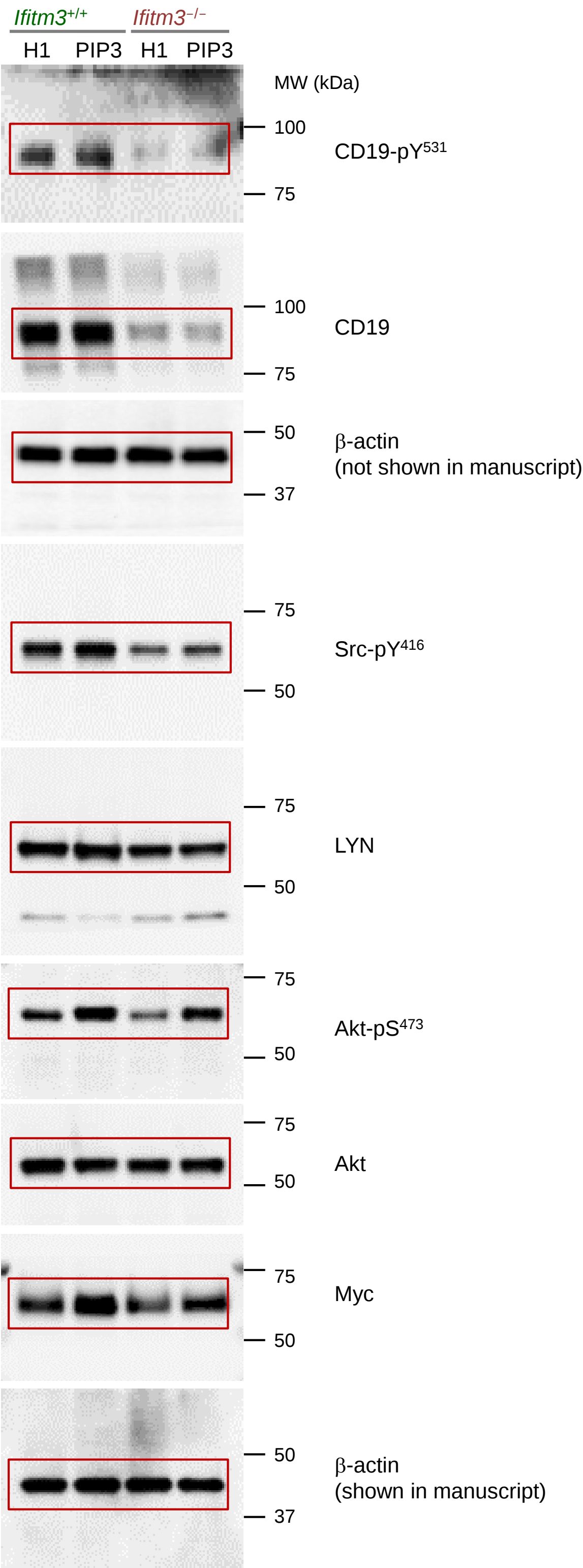
Myc, Bcl2 and β-actin (not shown in manuscript) were run on the same gel. Multiple β-actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 7b



IK6 and β-actin were run on the same gel. All samples were derived from the same experiment and blots were processed in parallel.

Extended Data Figure 8b



p-CD19, CD19 and β -actin (not shown in manuscript) were run on the same gel. p-CD19 was stripped and reprobed for CD19. p-Src and Lyn (reprobed from p-Src) were run on the same gel. p-Akt and Akt (reprobed from p-Akt) were run on the same gel. Myc and β -actin (reprobed from Myc, shown in manuscript) run on the same gel. Multiple β -actin loading controls were run. All samples were derived from the same experiment and blots were processed in parallel.