

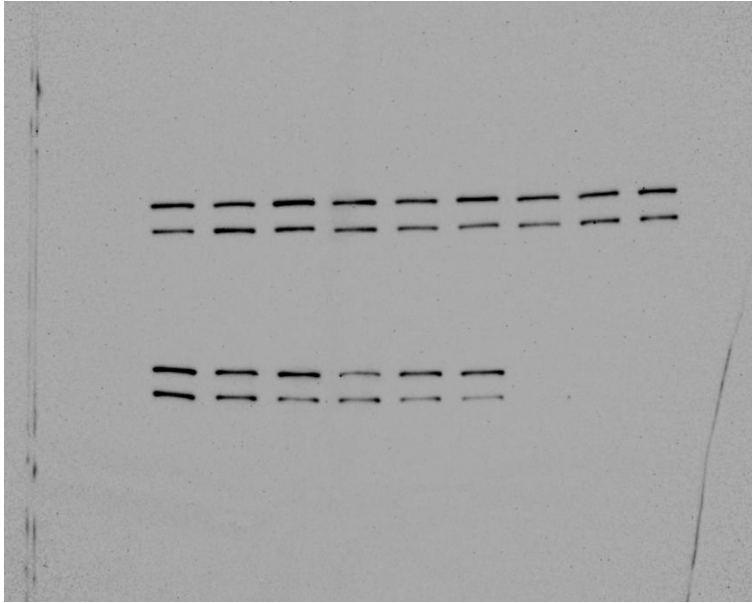


Figure S1A: Representative uncropped Western blot image showing P-glycoprotein expression in liver samples from young, adult, and old male C57BL/6J mice.

The upper row corresponds to biological replicates  $n = 1-3$  per age group (lanes ordered left to right as: young n1-3, adult n1-3, old n1-3).

The lower row corresponds to biological replicates  $n = 4-5$  per age group (lanes ordered left to right as: young n4-5, adult n4-5, old n4-5).

This panel shows the blot without molecular weight markers, as originally acquired.

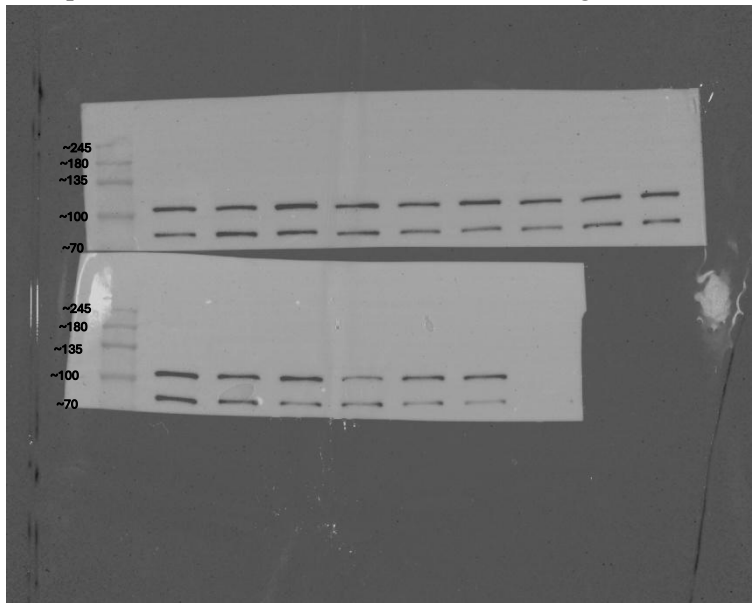


Figure S1B: The same blot image merged with molecular weight markers (ladder) to indicate the expected molecular weight of the detected bands. Marker sizes (kDa) are indicated on the left.

All lanes were run on the same gel under identical experimental conditions. No lanes were removed or rearranged. Cropped versions used for main figures were derived from this blot.

The corresponding loading control blot (GAPDH) for the same samples is shown in Supplementary Figure S3.

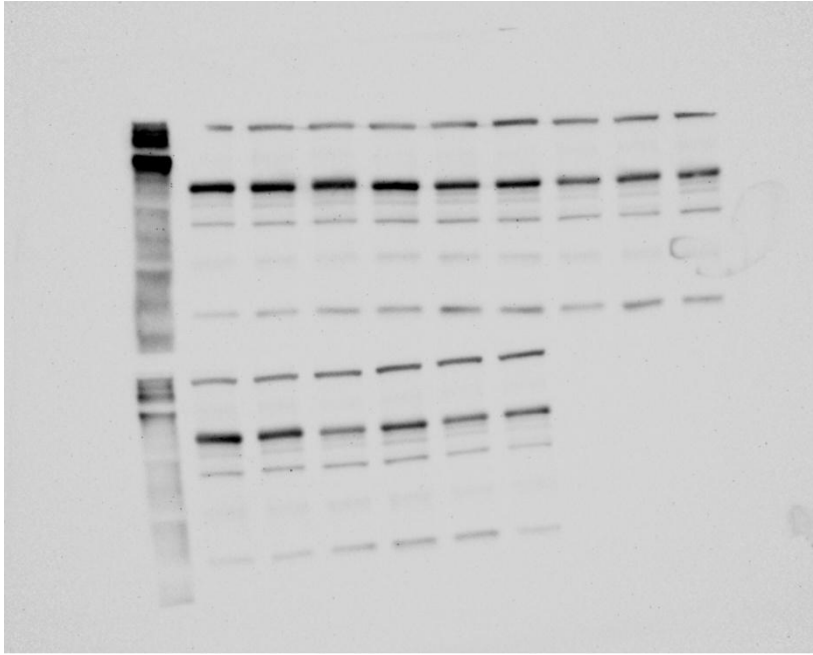


Figure S2A: Representative uncropped Western blot image showing CYP3A4 expression in liver samples from young, adult, and old male C57BL/6J mice.

The upper row corresponds to biological replicates  $n = 1-3$  per age group (lanes ordered left to right as: young  $n1-3$ , adult  $n1-3$ , old  $n1-3$ ).

The lower row corresponds to biological replicates  $n = 4-5$  per age group (lanes ordered left to right as: young  $n4-5$ , adult  $n4-5$ , old  $n4-5$ ).

This panel shows the blot without molecular weight markers, as originally acquired.

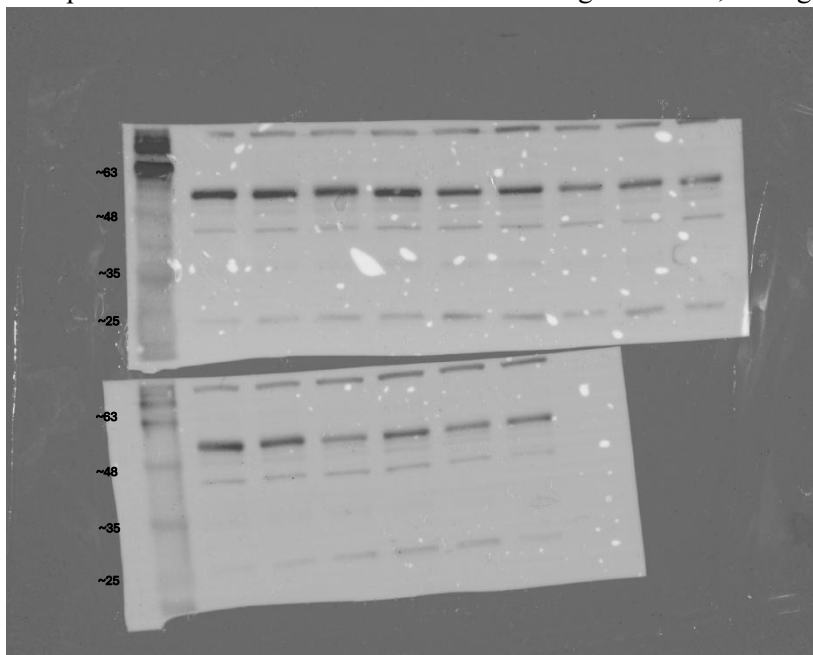


Figure S2B: The same blot image merged with molecular weight markers (ladder) to indicate the expected molecular weight of the detected bands. Marker sizes (kDa) are indicated on the left.

All lanes were run on the same gel under identical experimental conditions. No lanes were removed or rearranged. Cropped versions used for main figures were derived from this blot.

The corresponding loading control blot (GAPDH) for the same samples is shown in Supplementary Figure S3.

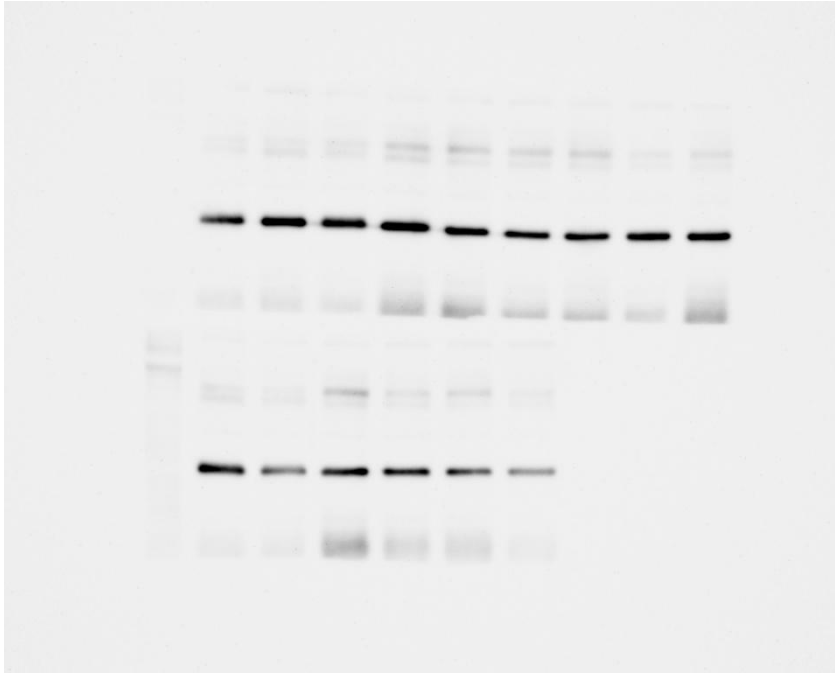


Figure 3A: Representative uncropped Western blot image showing GAPDH expression in liver samples from young, adult, and old male C57BL/6J mice.

The upper row corresponds to biological replicates  $n = 1-3$  per age group (lanes ordered left to right as: young n1-3, adult n1-3, old n1-3).

The lower row corresponds to biological replicates  $n = 4-5$  per age group (lanes ordered left to right as: young n4-5, adult n4-5, old n4-5).

This panel shows the blot without molecular weight markers, as originally acquired.

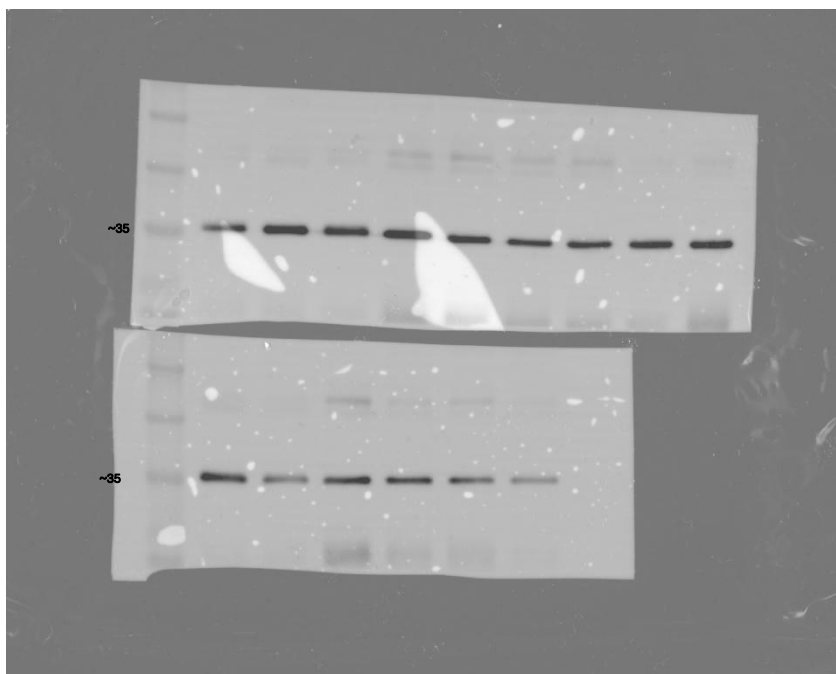


Figure S3B: The same blot image merged with molecular weight markers (ladder) to indicate the expected molecular weight of the detected bands. Marker sizes (kDa) are indicated on the left.

All lanes were run on the same gel under identical experimental conditions. No lanes were removed or rearranged. Cropped versions used for main figures were derived from this blot.

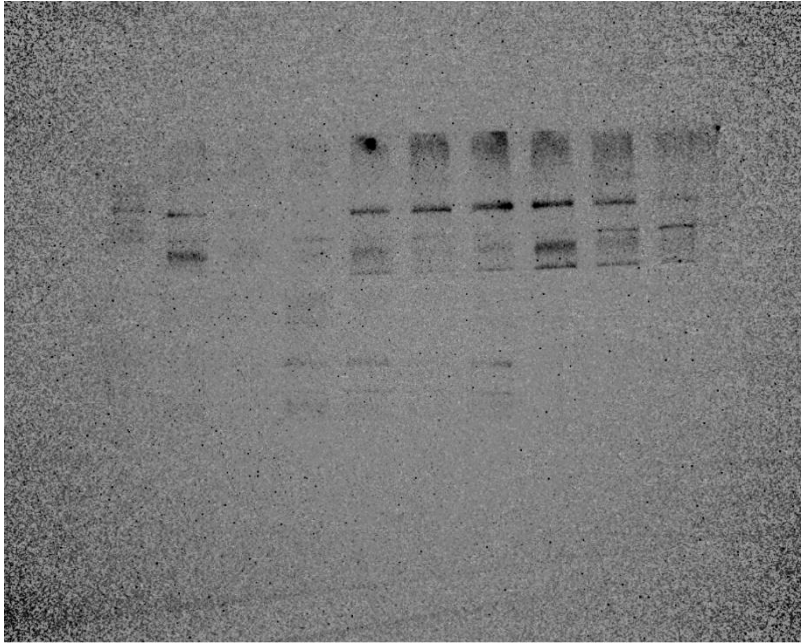


Figure S4A: Representative uncropped Western blot image showing P-glycoprotein expression in ileum samples from young, adult, and old male C57BL/6J mice.

The upper row corresponds to biological replicates  $n = 1-3$  per age group (lanes ordered left to right as: young n1-3, adult n1-3, old n1-3).

The lower row corresponds to biological replicates  $n = 4-5$  per age group (lanes ordered left to right as: young n4-5, adult n4-5, old n4-5).

This panel shows the blot without molecular weight markers, as originally acquired.

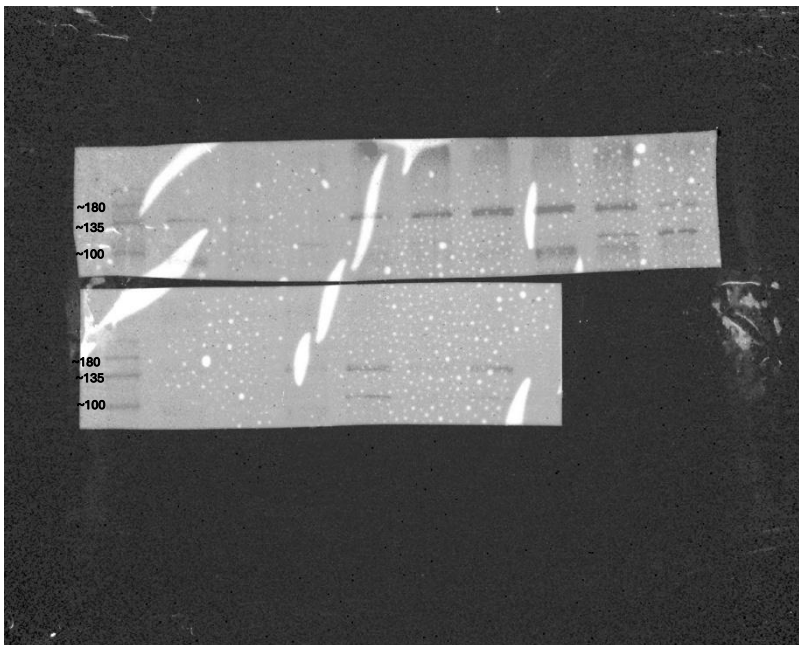


Figure S4B: The same blot image merged with molecular weight markers (ladder) to indicate the expected molecular weight of the detected bands. Marker sizes (kDa) are indicated on the left.

All lanes were run on the same gel under identical experimental conditions. No lanes were removed or rearranged. Cropped versions used for main figures were derived from this blot.

The corresponding loading control blot (GAPDH) for the same samples is shown in Supplementary Figure S6.

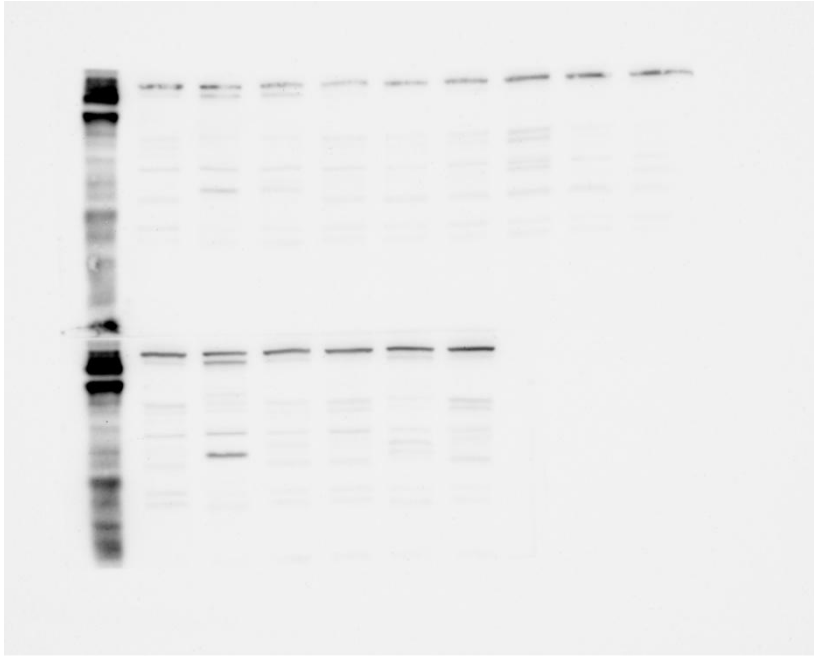


Figure S5A: Representative uncropped Western blot image showing CYP3A4 expression in ileum samples from young, adult, and old male C57BL/6J mice.

The upper row corresponds to biological replicates  $n = 1-3$  per age group (lanes ordered left to right as: young n1-3, adult n1-3, old n1-3).

The lower row corresponds to biological replicates  $n = 4-5$  per age group (lanes ordered left to right as: young n4-5, adult n4-5, old n4-5).

This panel shows the blot without molecular weight markers, as originally acquired.

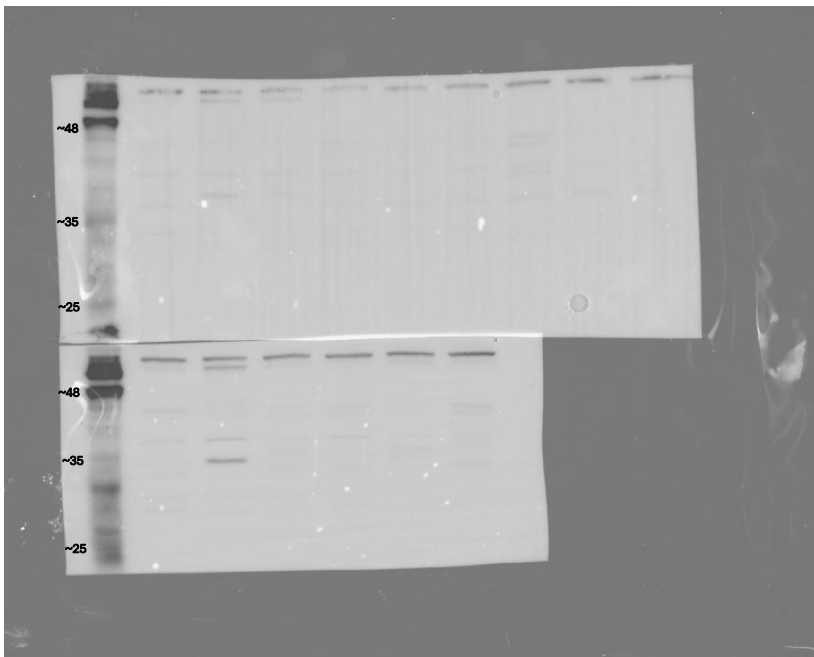


Figure S5B: The same blot image merged with molecular weight markers (ladder) to indicate the expected molecular weight of the detected bands. Marker sizes (kDa) are indicated on the left.

All lanes were run on the same gel under identical experimental conditions. No lanes were removed or rearranged. Cropped versions used for main figures were derived from this blot.

The corresponding loading control blot (GAPDH) for the same samples is shown in Supplementary Figure S6.

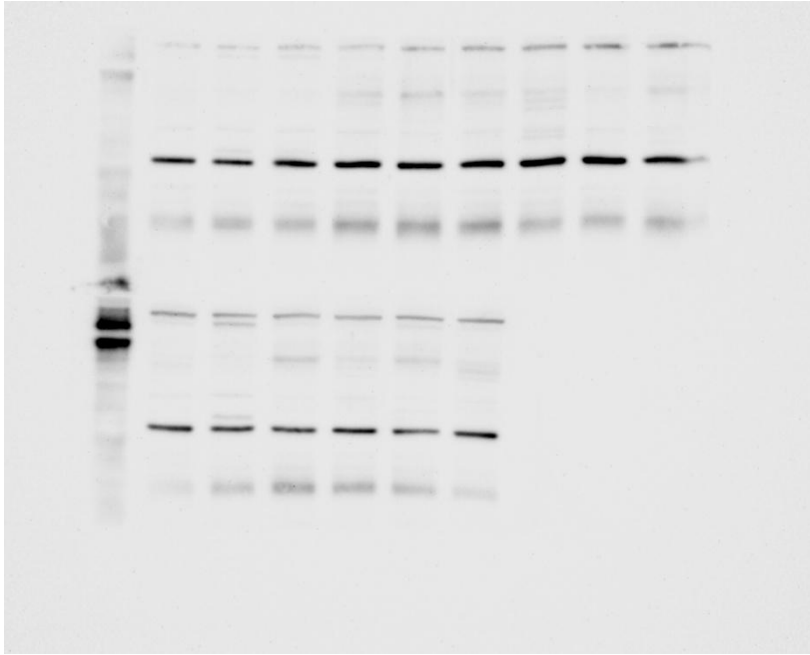


Figure S6A: Representative uncropped Western blot image showing GAPDH expression in ileum samples from young, adult, and old male C57BL/6J mice.

The upper row corresponds to biological replicates  $n = 1-3$  per age group (lanes ordered left to right as: young n1-3, adult n1-3, old n1-3).

The lower row corresponds to biological replicates  $n = 4-5$  per age group (lanes ordered left to right as: young n4-5, adult n4-5, old n4-5).

This panel shows the blot without molecular weight markers, as originally acquired.

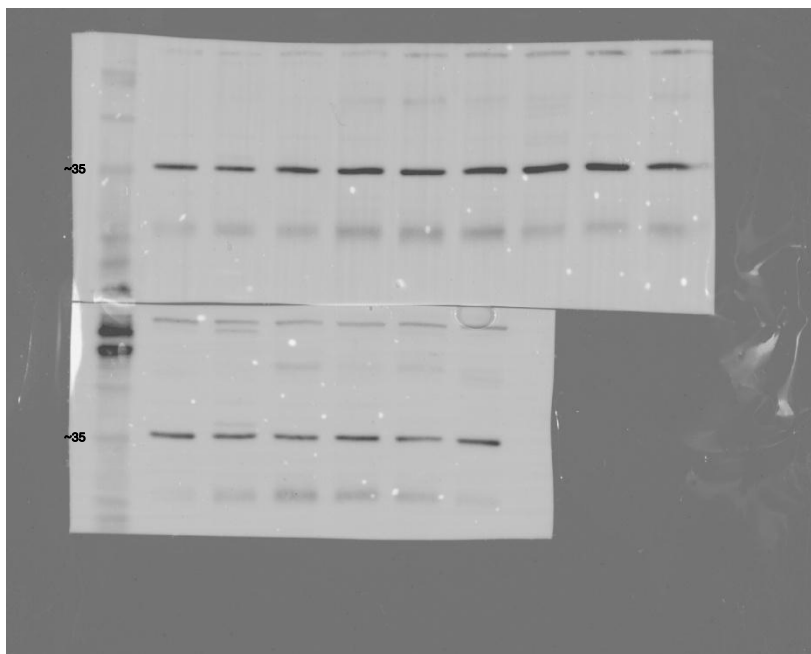


Figure S6B: The same blot image merged with molecular weight markers (ladder) to indicate the expected molecular weight of the detected bands. Marker sizes (kDa) are indicated on the left.

All lanes were run on the same gel under identical experimental conditions. No lanes were removed or rearranged. Cropped versions used for main figures were derived from this blot.