

### Supplementary Figure S1. Full-length uncropped Western blot images

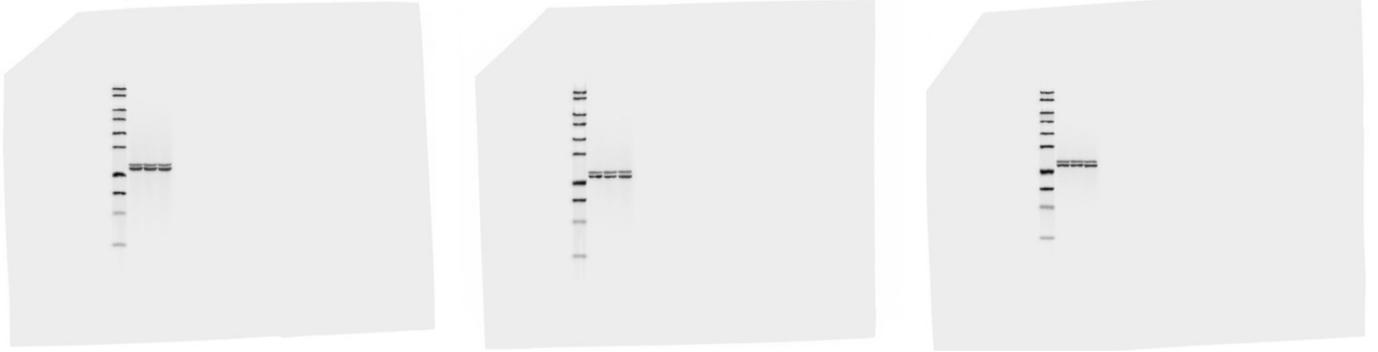
Full-length, uncropped Western blot images corresponding to the cropped blots shown in Figure 4 are provided.

For each target protein (ERK, p-ERK, p38, p-p38, JNK, p-JNK, p65, p-p65, STAT3, p-STAT3, EGFR, p-EGFR, HBD2, and GAPDH), representative membranes from three independent biological replicates are shown.

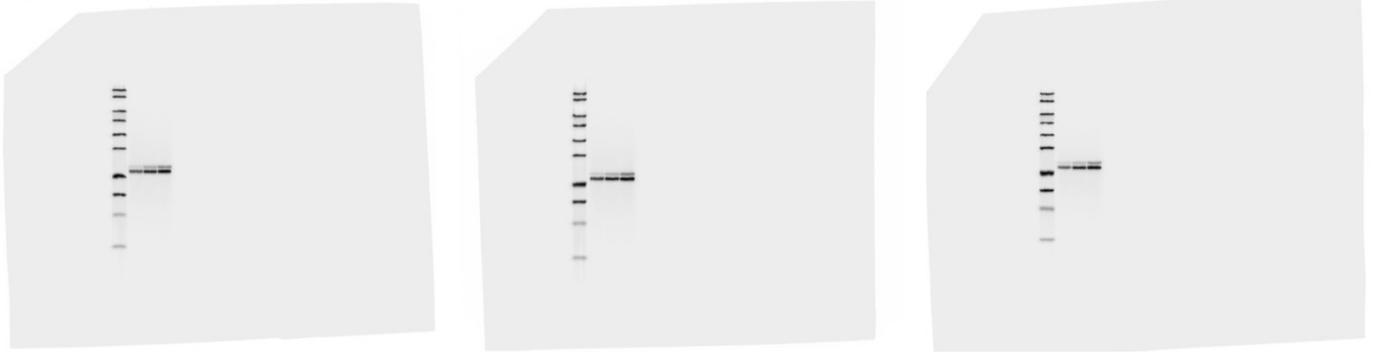
Cropped regions used for figure preparation are indicated where applicable. All samples were processed under identical experimental conditions. No lanes were removed or rearranged in a manner that alters data interpretation.

Only uniform adjustments of brightness and contrast were applied across the entire image.

#### A. ERK (Replicate 1–3)



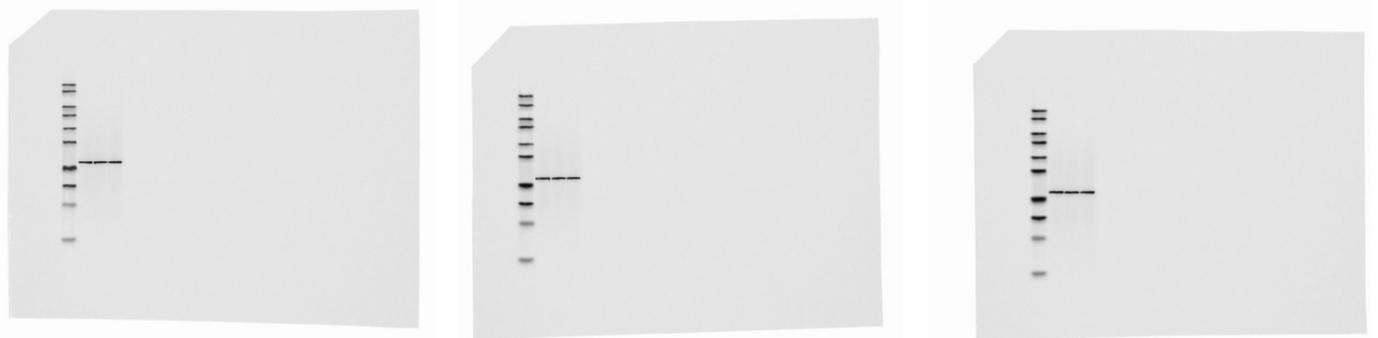
#### B. p-ERK (Thr202/Tyr204)



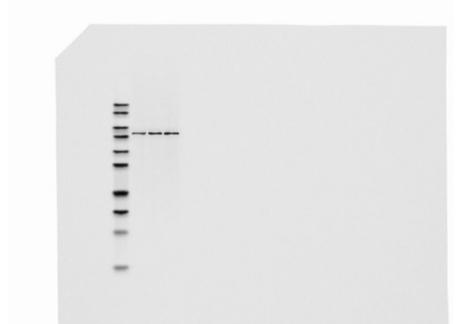
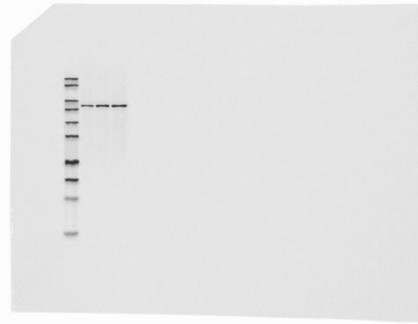
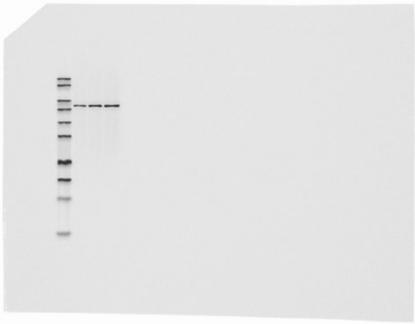
#### C. p38



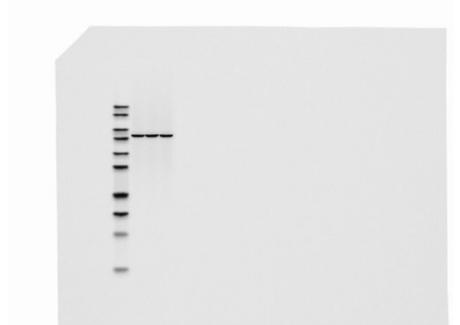
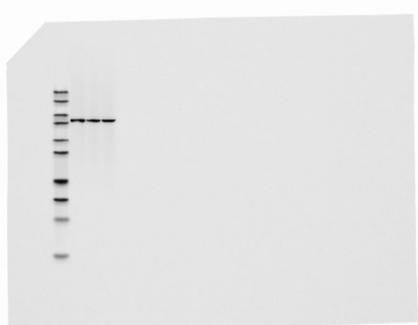
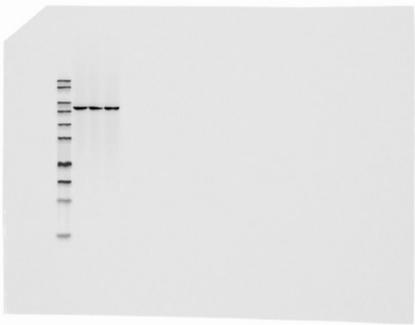
#### D. p-p38 (Thr180/Tyr182)



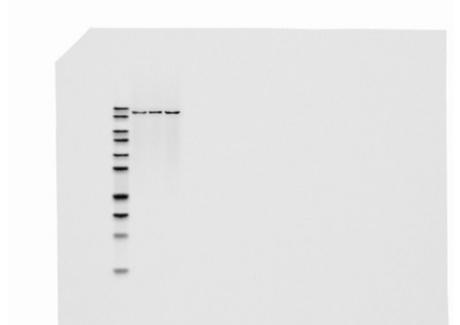
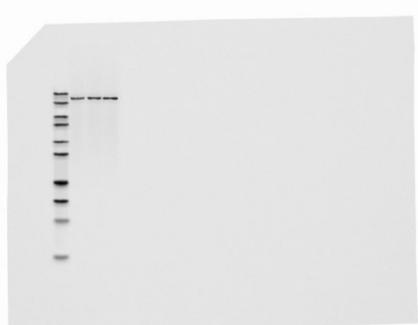
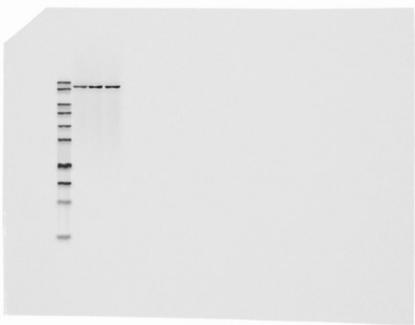
E. p-STAT3



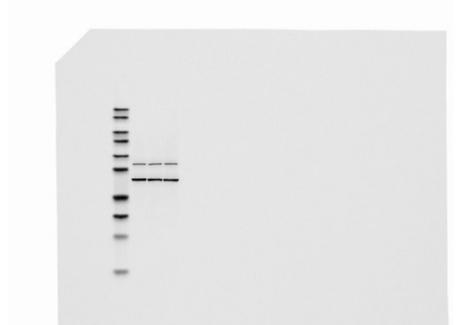
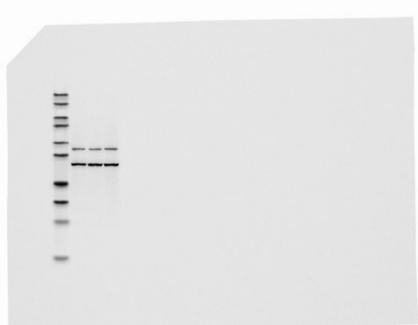
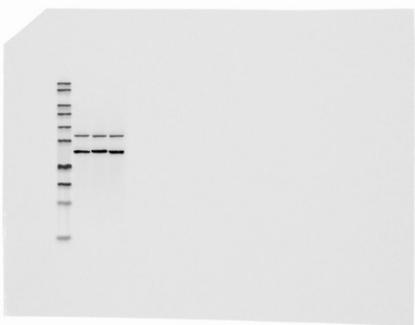
F. STAT3



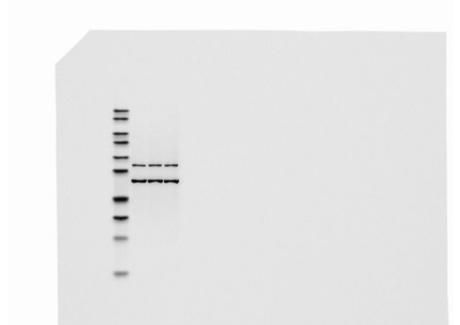
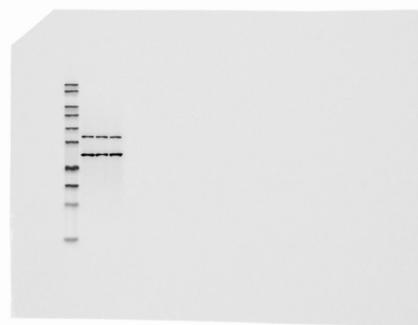
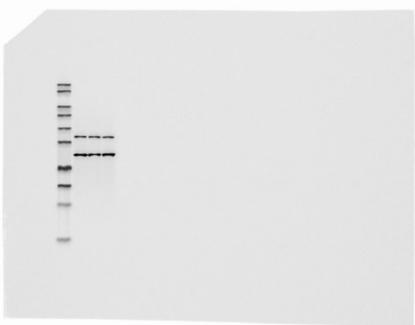
G. p-EGFR



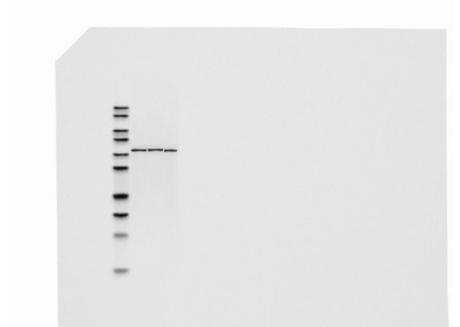
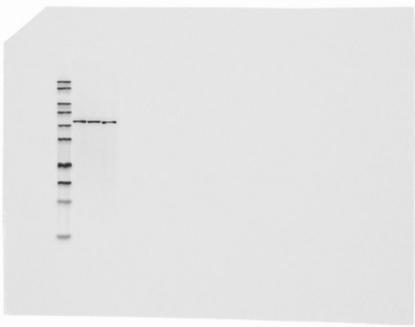
H. JNK



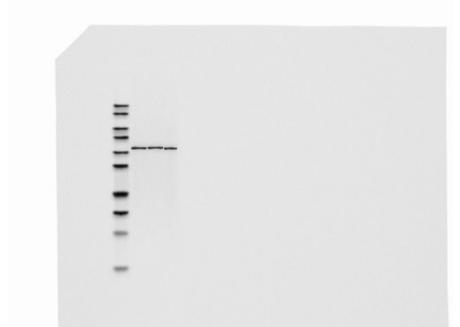
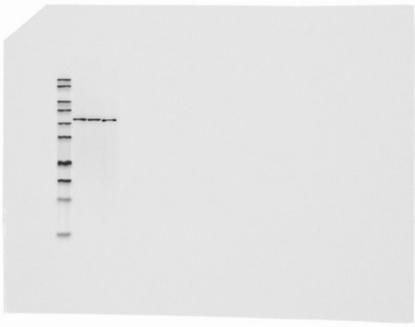
I. p-JNK



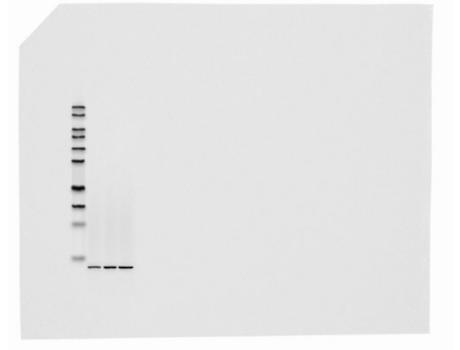
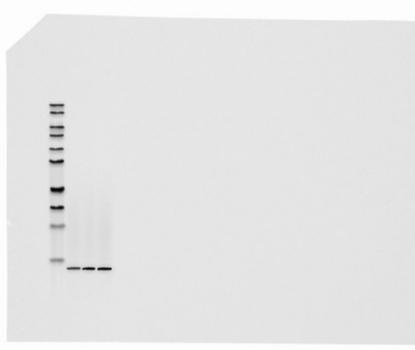
J. p65



K. p-p65



L. HBD2 (supernatant)



M. GAPDH

