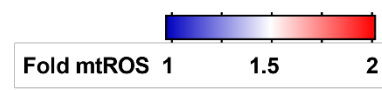
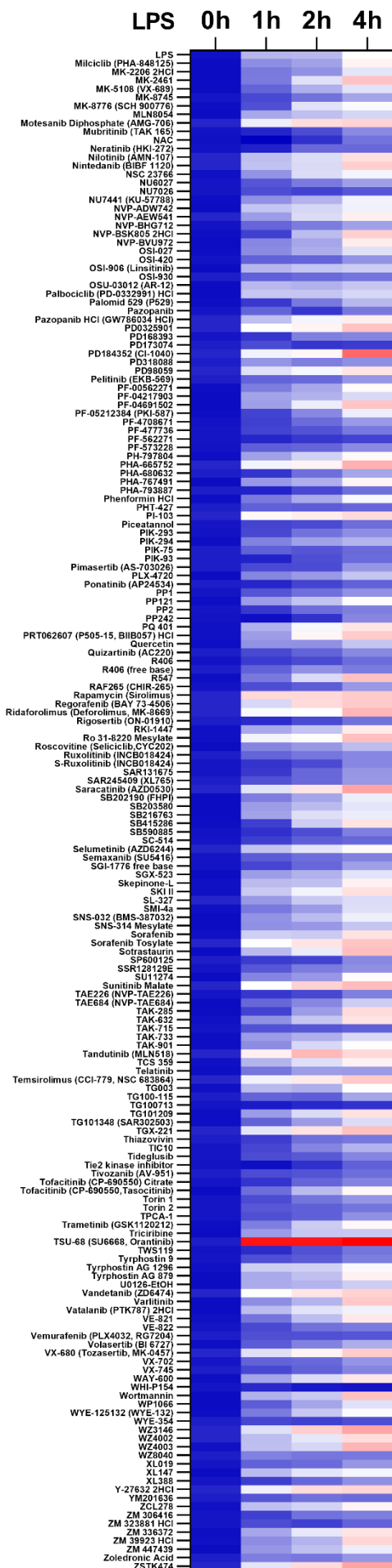
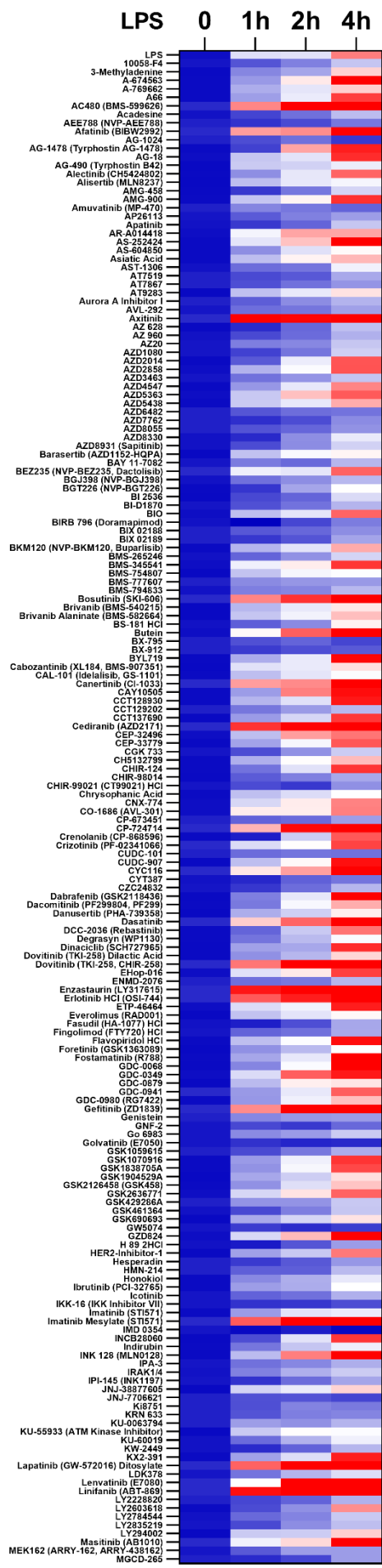


Supplementary Information

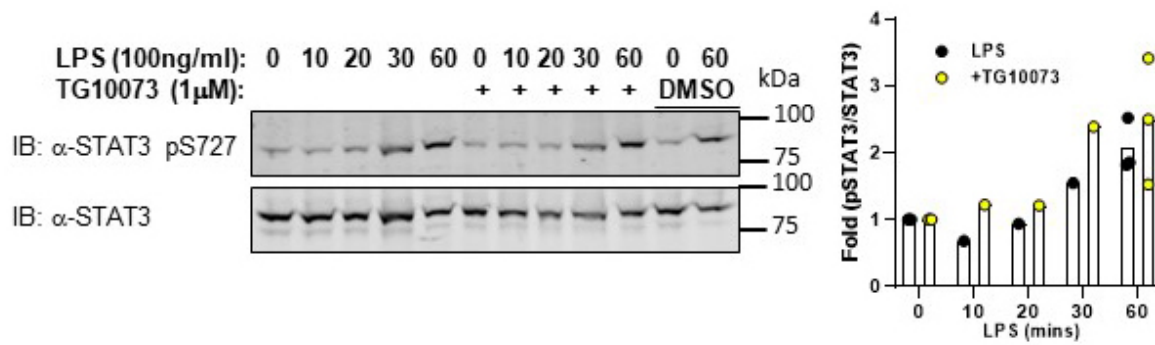
STAT3 Serine phosphorylation is required for TLR4 metabolic reprogramming and IL-1 β expression

Balic et al,



Supplementary Figure 1. Kinase inhibitors suppress LPS-induced mitochondrial ROS production, Related for Figure 3 and Supplementary Table 1

iBMDMs were pretreated with kinase inhibitors (500nM; see Supplementary Dataset 1) for 60 mins, and MitoSOX added 10 mins prior to challenge with LPS for indicated times. LPS-induced production of superoxide by mitochondria was analysed by measuring oxidized MitoSOX fluorescence at 580nm in a BMG ClarioStar. Data is represented as the means of 3 biological replicates/inhibitor (see Supplementary Dataset 2). Results are shown as fold increase compared to unstimulated control.



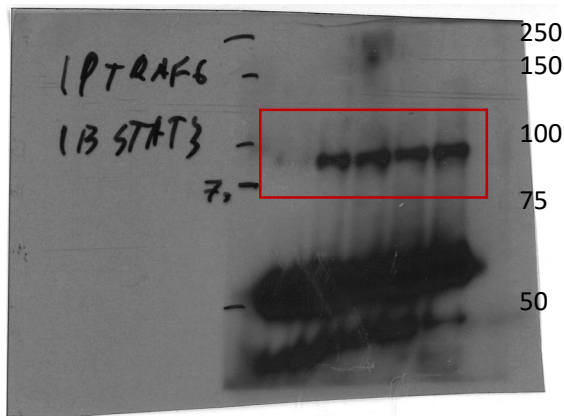
Supplementary Figure 2. PI3 kinase inhibition does not reduce LPS-induced STAT3 Ser727 phosphorylation.

The ability of PI3K to induce STAT3 Ser727 phosphorylation was determined by pretreating or not, BMDMs with the our highest ranked PI3K inhibitor TG10073 for 60 mins prior to LPS stimulation for indicated times. STAT3 Ser727 phosphorylation was determined in cell lysates by immunoblot with anti-STAT3 pS727 and anti-STAT3 antibodies. Densitometry was conducted using ImageJ software and presented as fold increase of STAT3 pS727 compared to total STAT3 protein as related to untreated or treated control for each sample (see Supplementary Dataset 3). DMSO alone was added as a solvent control. Data represents 2 biologically independent experiments for timepoints 10, 20 and 30mins post LPS; and 3 independent experiments for timepoints 0 and 60 mins post-LPS challenge.

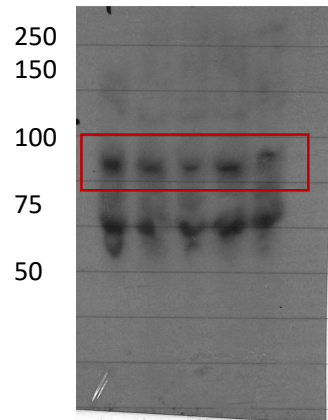
Supplemental Figure 3 Full Figure Immunoblots

Uncropped immunoblots from Figure 1b

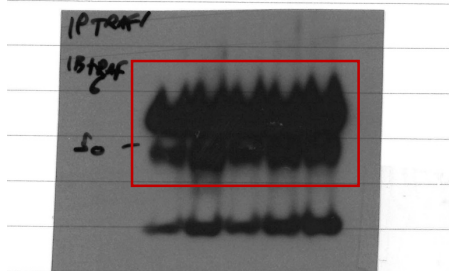
IP Samples: α -STAT3



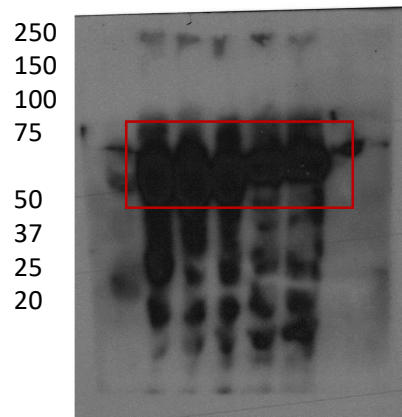
IB Lysates: α -STAT3



IP Samples: α -TRAF6

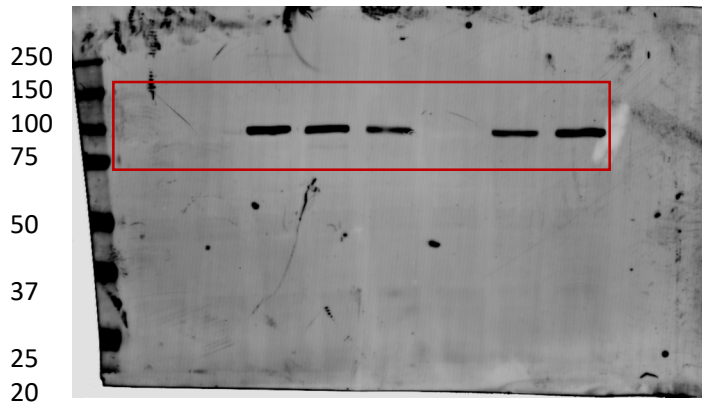


IB Lysates: α -TRAF6

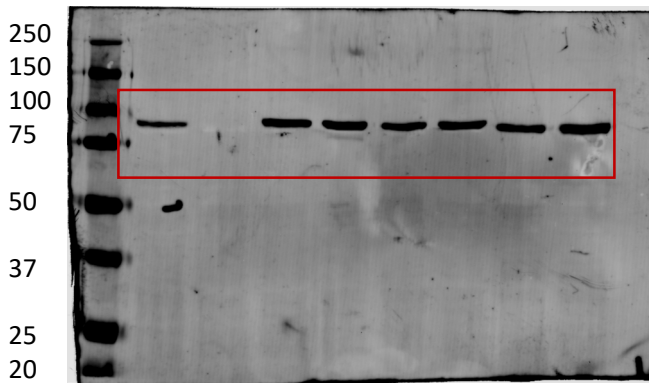


Uncropped immunoblots from Figure 1c

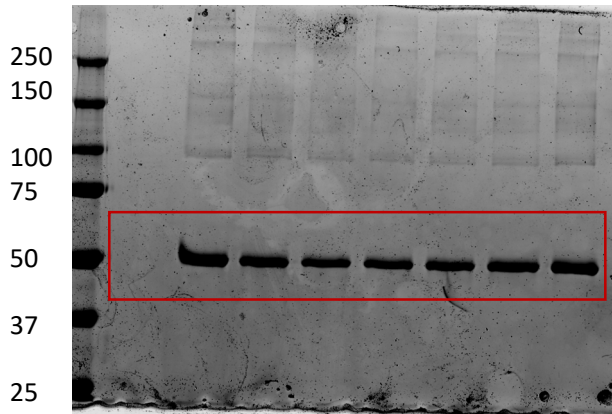
IP Sample: α -STAT3



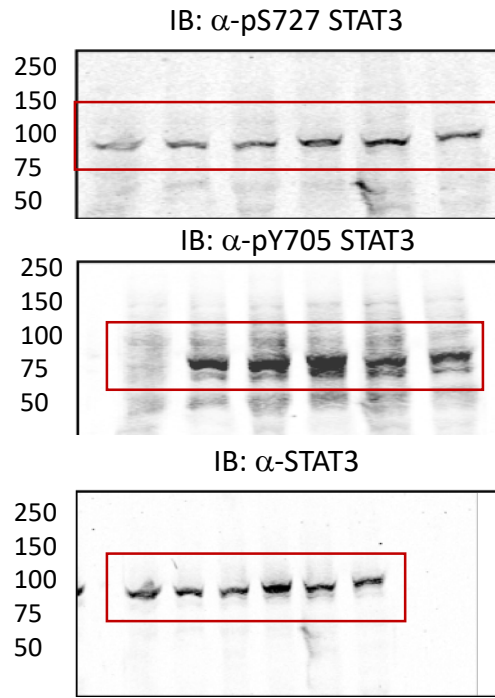
IB Lysates: α -STAT3



IP Sample: α -TRAF6

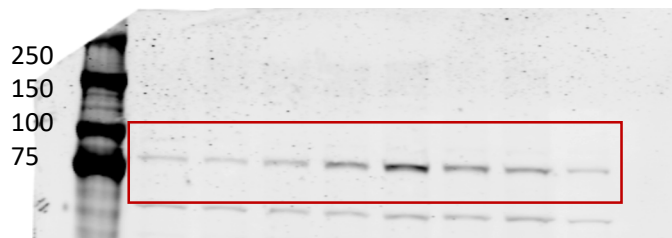


Uncropped immunoblots from Figure 2a

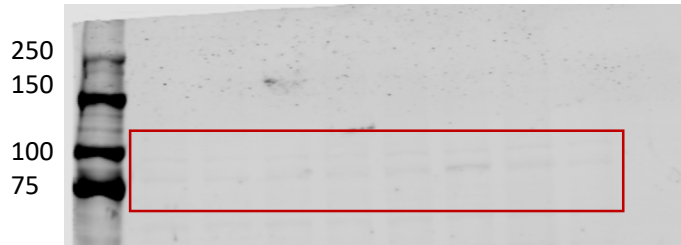


Uncropped immunoblots from Figure 2b

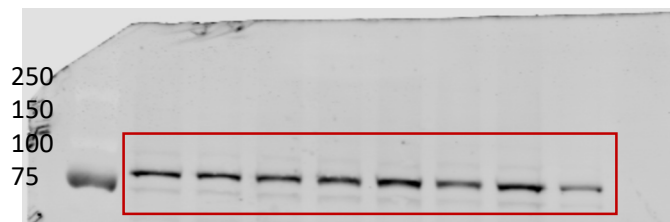
IB: α -pS727 STAT3



IB: α -pY705 STAT3

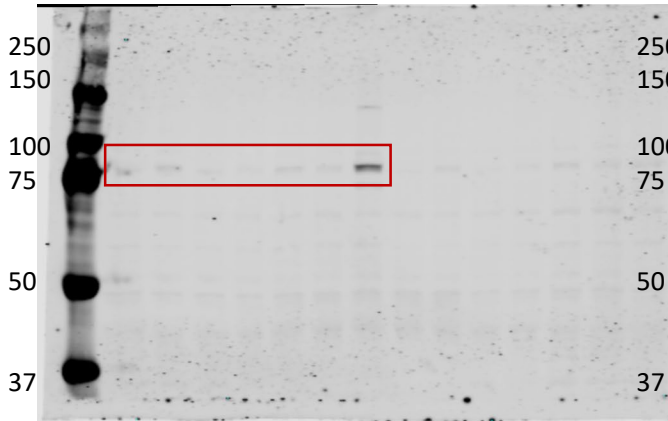


IB: α -STAT3

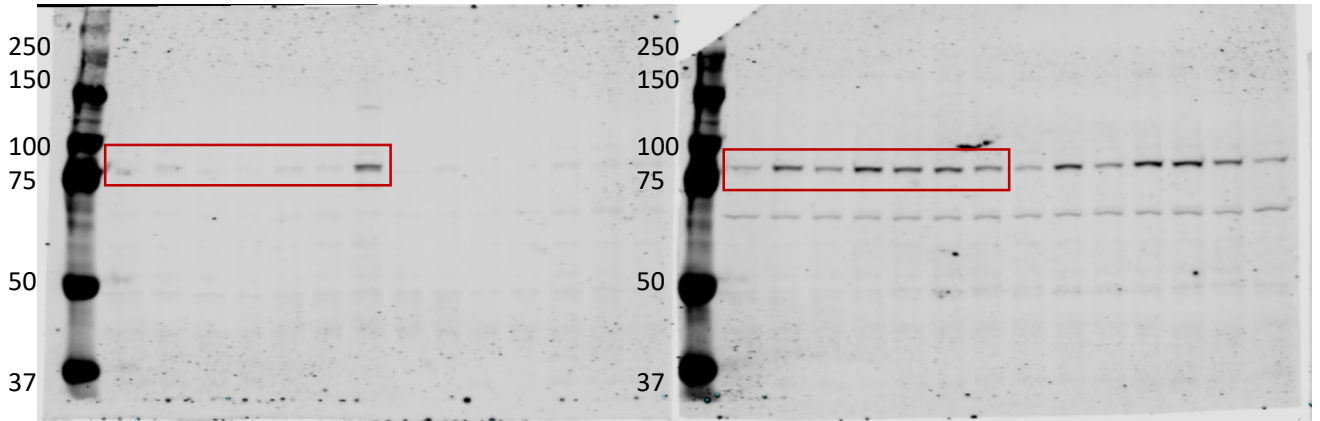


Uncropped immunoblots from Figure 2c

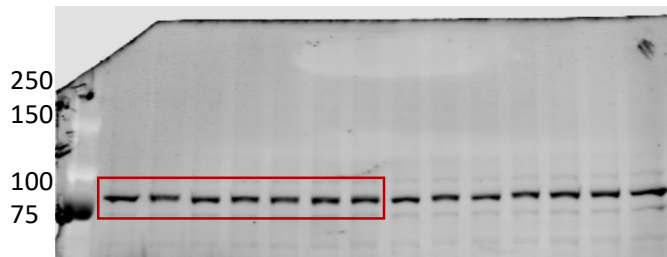
IB: α -pY705 STAT3



IB: α -pS727 STAT3

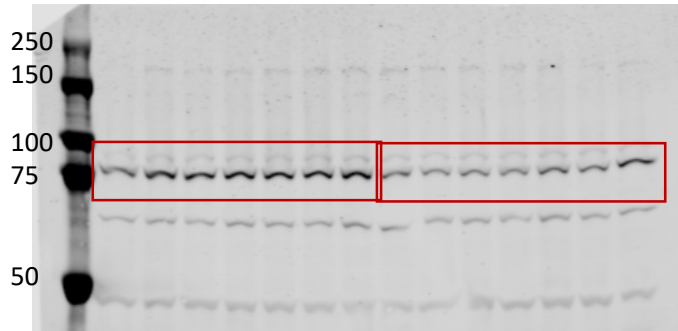


IB: α -STAT3

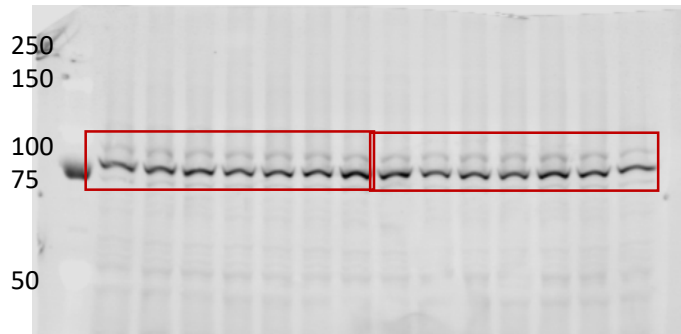


Uncropped immunoblots from Figure 2d

IB: α -pS727 STAT3

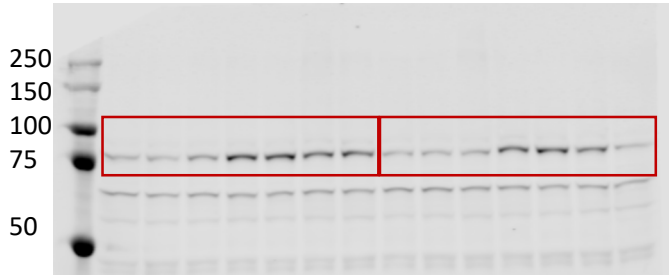


IB: α -STAT3

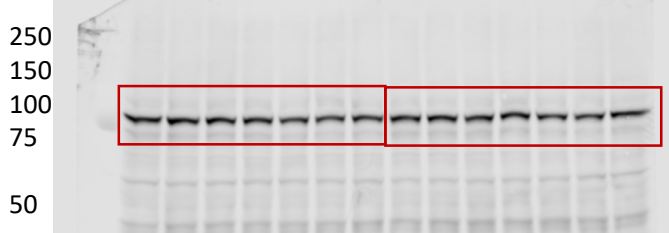


Uncropped immunoblots from Figure 2e

IB: α -pS727 STAT3



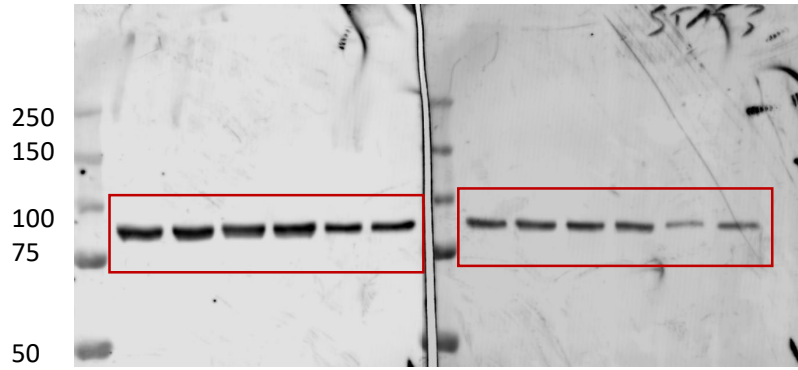
IB: α -STAT3



Uncropped immunoblots from Figure 2f

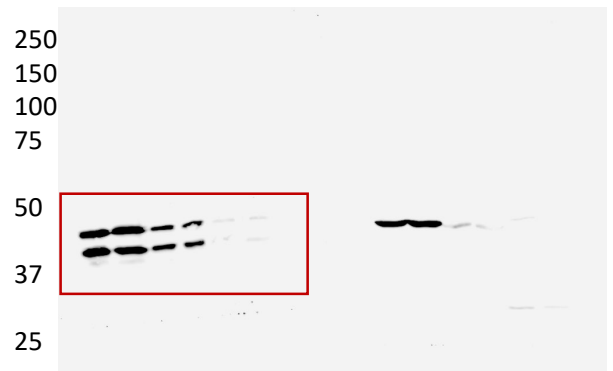
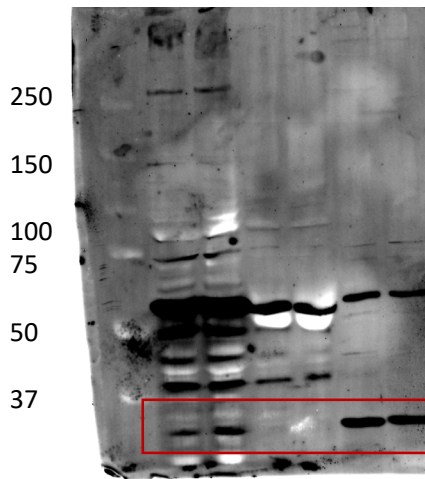
IB: α -STAT3

IB: α -pS727 STAT3

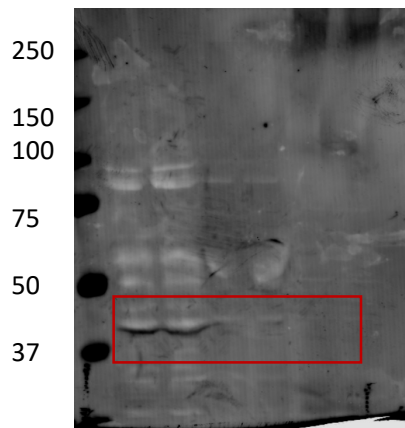


IB: α -VDAC

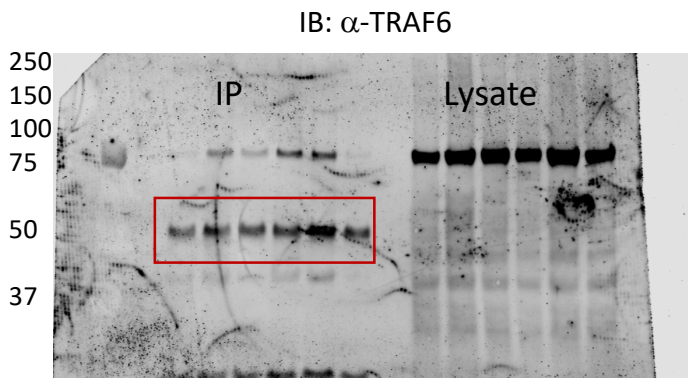
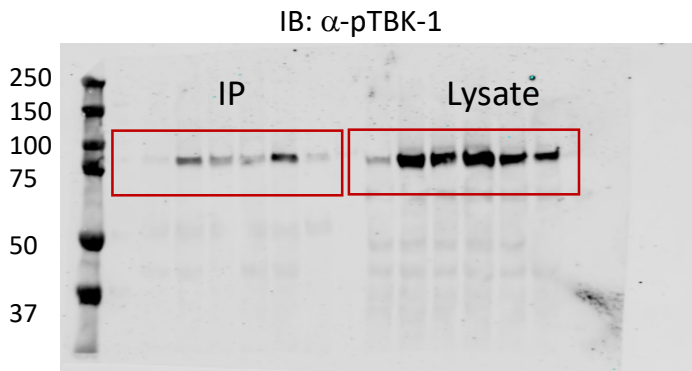
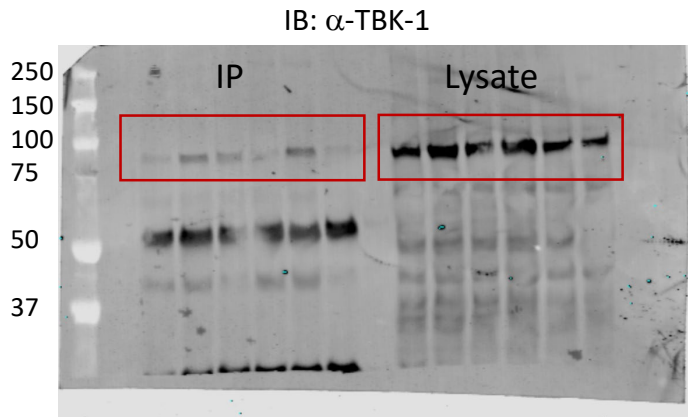
IB: α -ERK1/2



IB: α -Lamin A/C

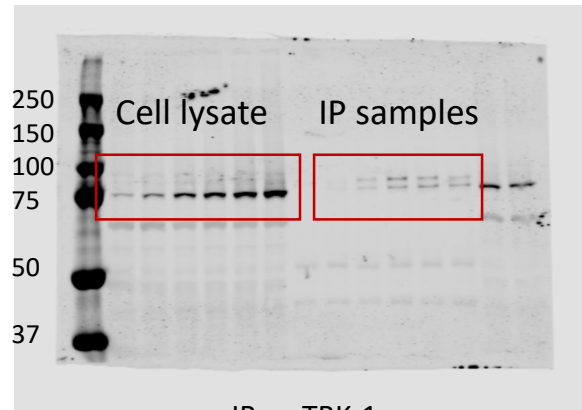


Uncropped immunoblots from Figure 3b

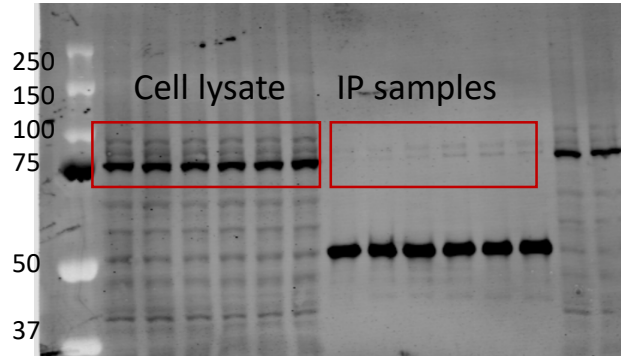


Uncropped immunoblots from Figure 3c

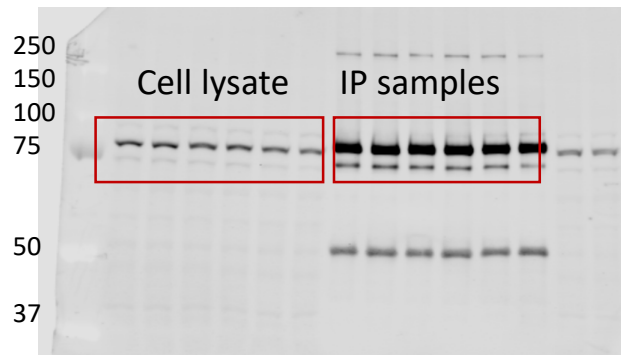
IB: α -pTBK-1



IB: α -TBK-1

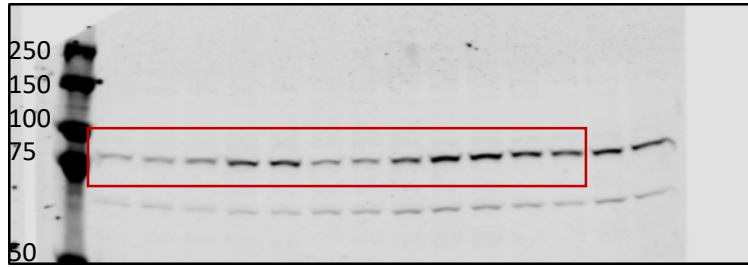


IB: α -STAT3

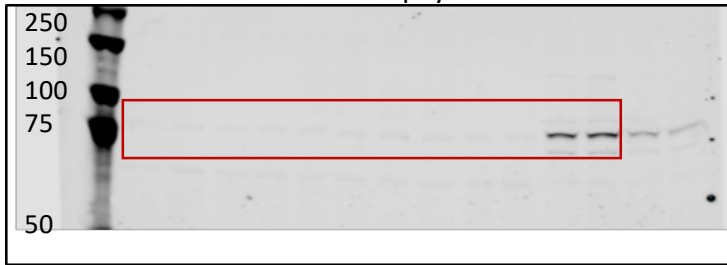


Uncropped immunoblots from Figure 3d

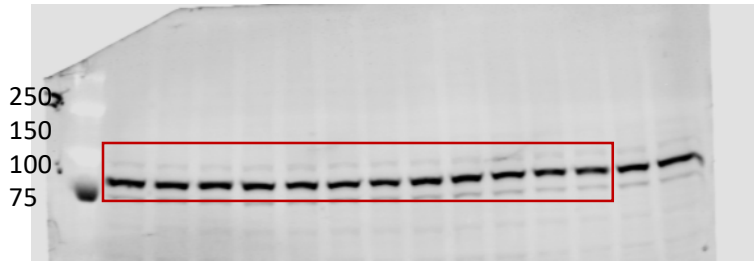
IB: α -pSer727 STAT3



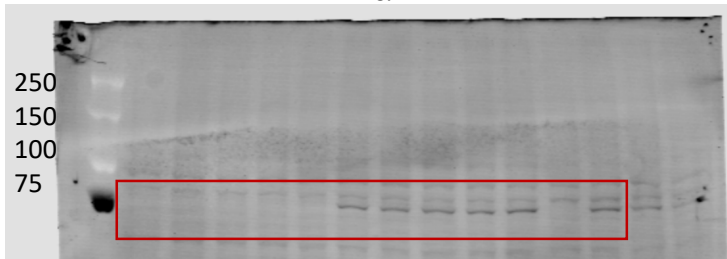
IB: α -pTyr705 STAT3



IB: α -STAT3

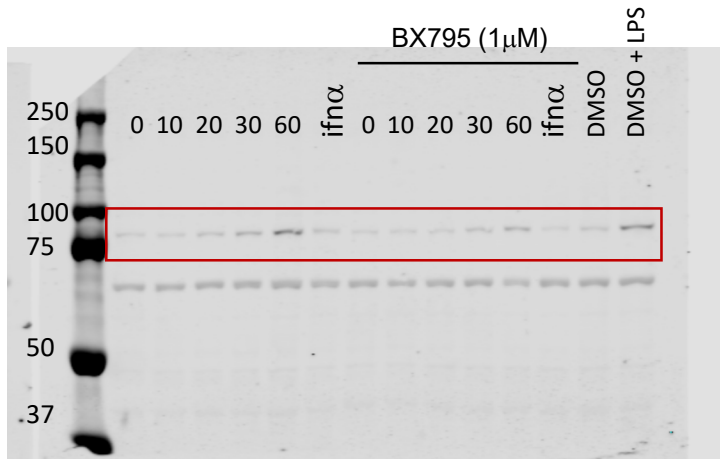


IB: α -TBK-1

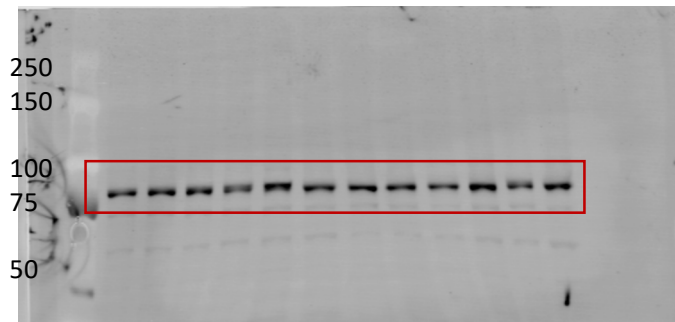


Uncropped immunoblots from Figure 3e

IB: α -pS727 STAT3

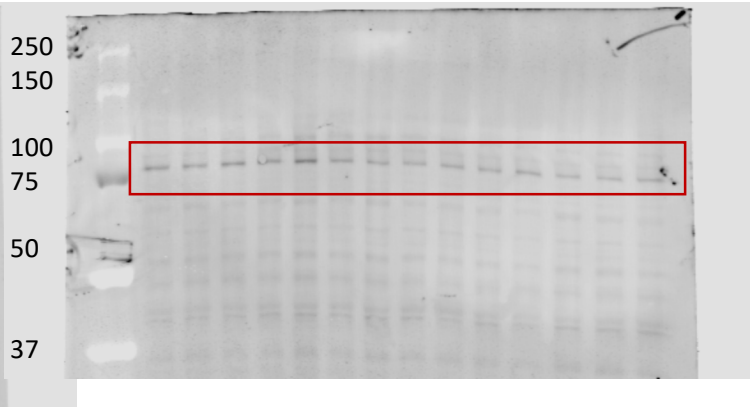
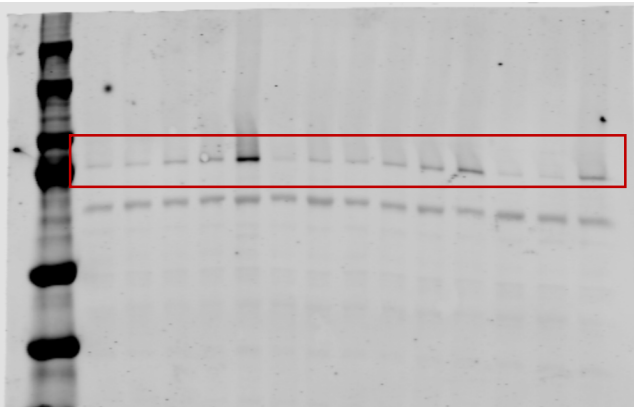


IB: α -STAT3



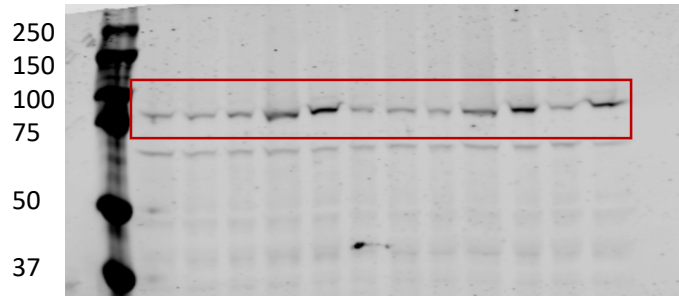
IB: α -pTBK-1

IB: α -TBK-1



Uncropped immunoblots from Supplementary Figure 2

IB: α -pS727 STAT3



IB: α -STAT3

