

## **Supplementary information**

### **XPR1 prevents T-cell hyperactivation through interaction with KIDINS220 for endocytic regulation of CD28 costimulation**

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Supplementary information contains:

- unprocessed images of immunoblots shown in Figures 2C, 3A, 3B, 3H, S1B, S7 and S9
- unprocessed fluorescence microscopy images shown in Figures 4E and 5B
- unprocessed electrophoretic gel images shown in Figure S4A

Red frames indicate data from corresponding Figures and Supplementary Figures.

(Data from imaging flow cytometry experiments are shown unprocessed throughout the manuscript with single fluorescence signals presented in Supplementary Figure S8 and S11.

Data from live cell imaging experiments are shown unprocessed with Ca<sup>2+</sup> signal traces of individual cells presented in Supplementary Figure S6.)

Figure 2C/S7  
Immunoblots

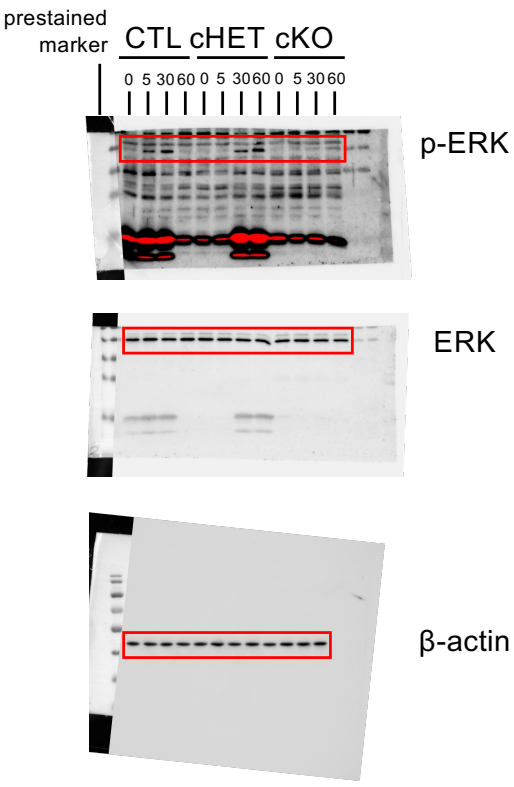


Figure 3, A and B/S9  
Immunoblots

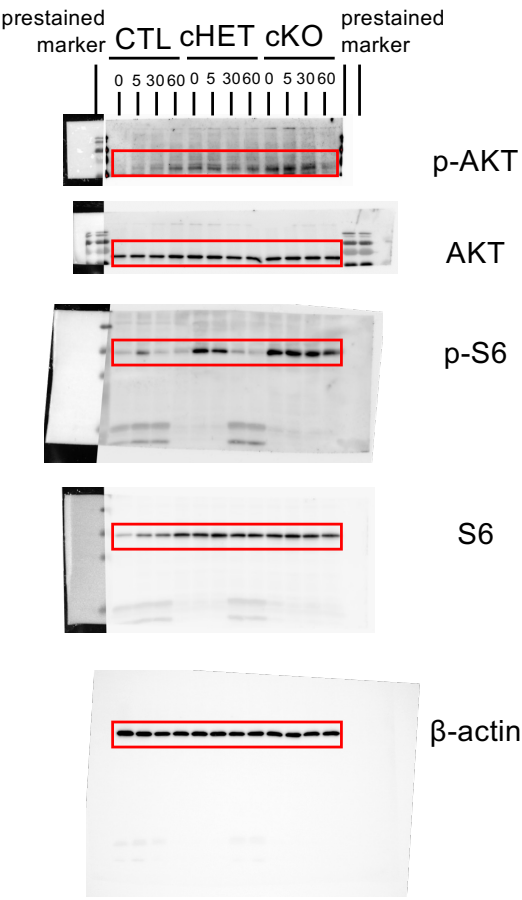


Figure 3H  
Immunoblots

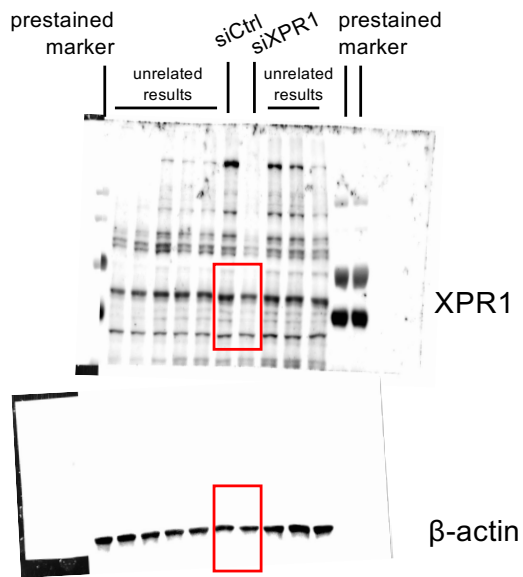


Figure 4E  
IF images

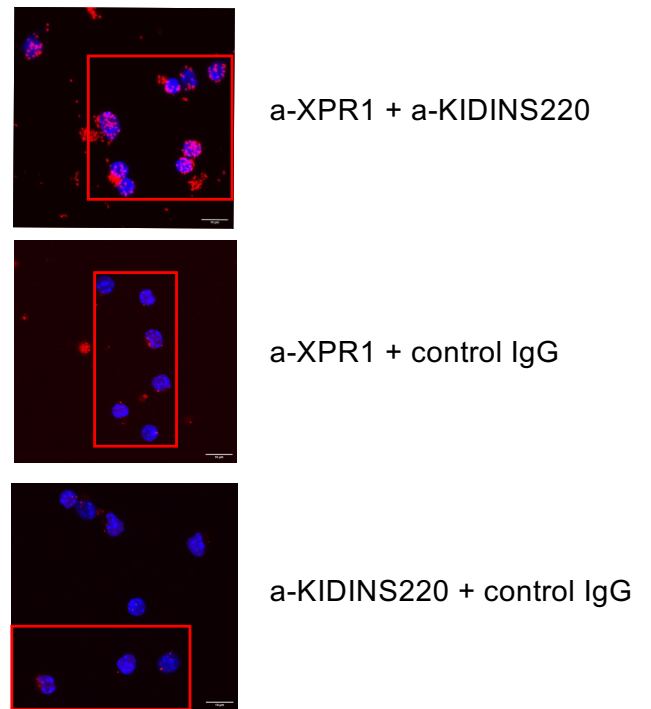
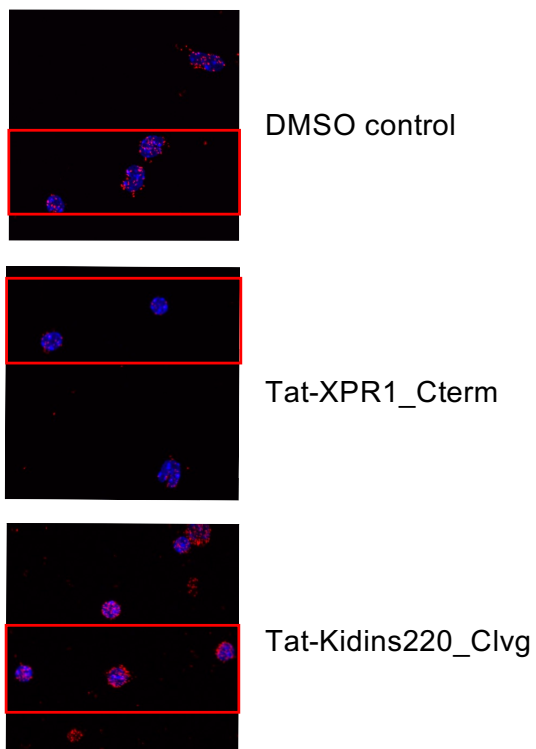
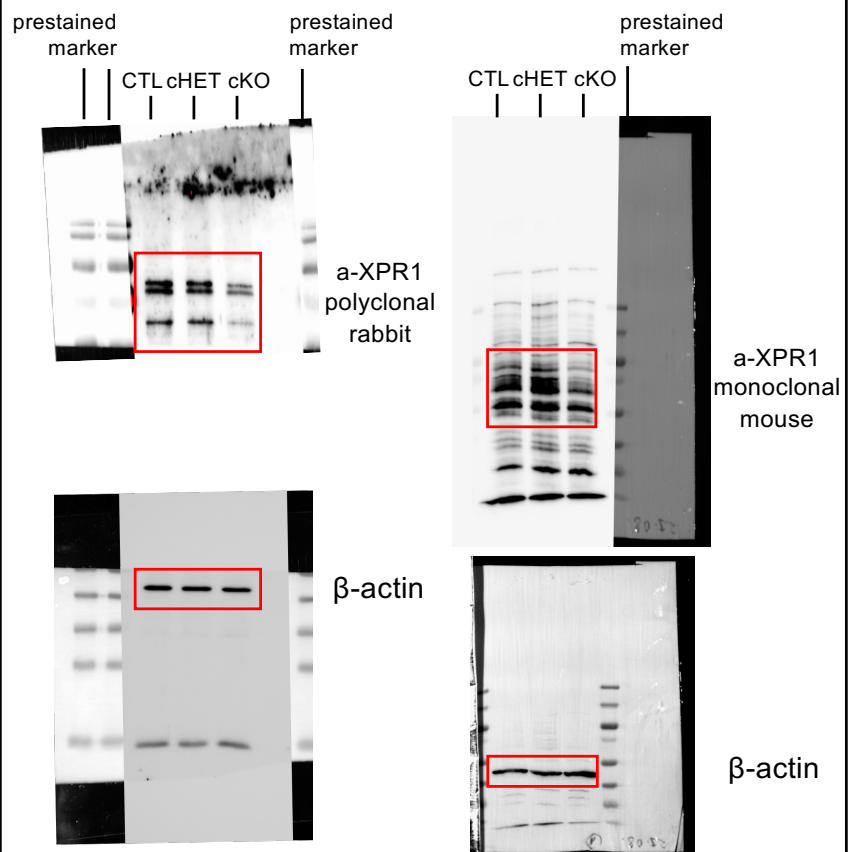


Figure 5B  
IF images



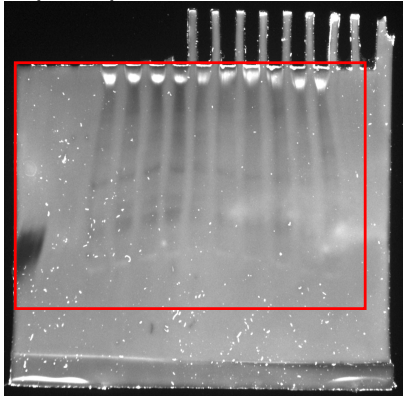
Supplementary Figure S1B  
Immunoblots



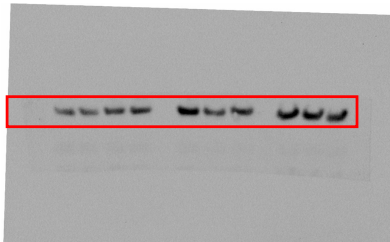
Supplementary Figure S4A  
Electrophoretic gel/immunoblot

Synthetic  
polyP Cd4-Cre<sup>+</sup>  
Xpr1<sup>+/+</sup>

CTL cHET cKO



PAGE: Negative  
DAPI staining



IB:  $\beta$ -actin