

AlphaLISA® SureFire® Ultra™

# Human p-DAP12 (Tyr91) Detection Kit

**Product number:** ALSU-PDAP12-B500, ALSU-PDAP12-B10K,  
ALSU-PDAP12-B50K, ALSU-PDAP12-B-HV



**Kit specificity:**

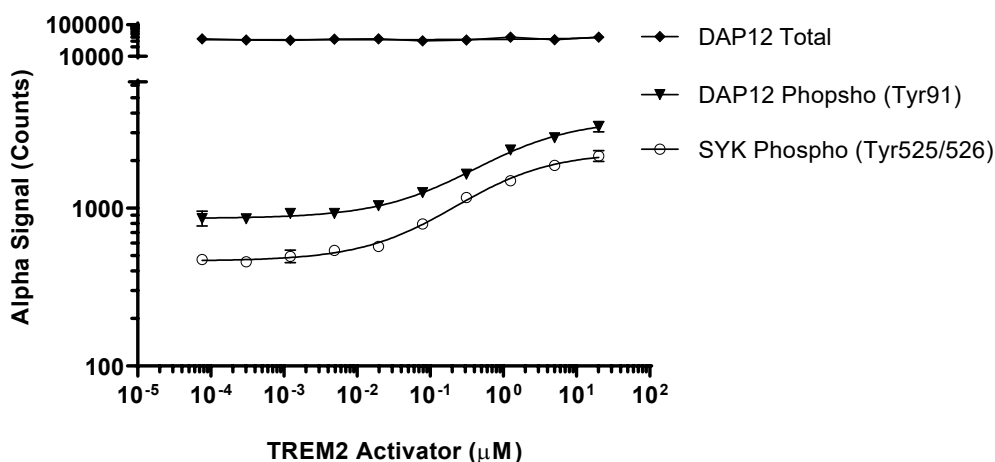
This assay kit contains antibodies which recognize the phospho-Tyr91 epitope and a distal epitope on DAP12. The protein detected by this kit corresponds to UniProt ID O43914. DAP12 is also known as TYRO protein tyrosine kinase-binding protein and DNAX-activation protein 12. These antibodies recognize DAP12 of human origin. Other species should be tested on a case-by-case basis.

**Control lysate information:**

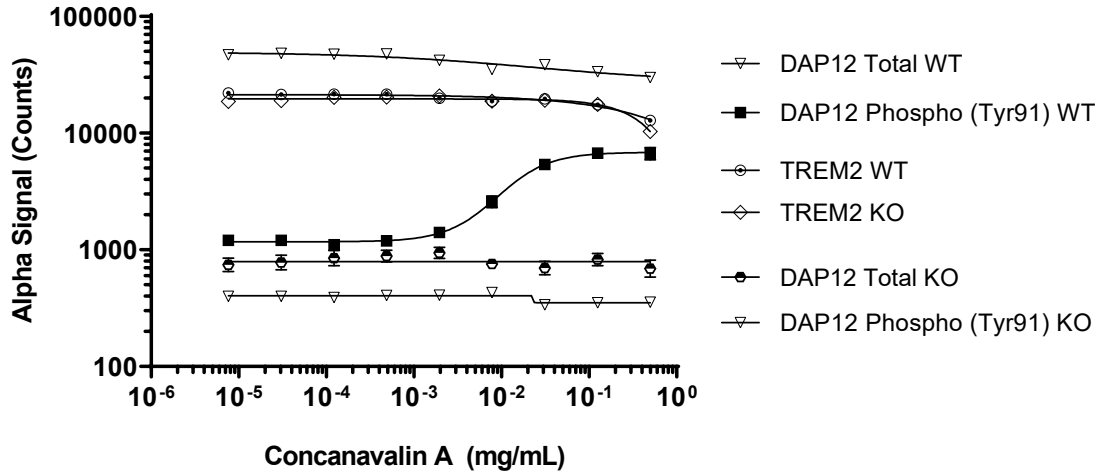
Positive Control Lysate: Prepared from THP 1 cells cultured in 10% FBS containing media. Cells were harvested and washed with HBSS + 0.1% BSA, adjusted to 4 x10<sup>6</sup> cells/mL and then treated with 0.5 mM Pervanadate for 30 minutes. Cells were then lysed with the addition of 5X Lysis Buffer.

**Representative data**

Data obtained with a 2-plate, 2-incubation protocol. THP1 cells were prepared at 600K/mL in 10% FBS containing media and treated with 35 ng/mL TGFβ for 20 hours. Cells were then washed with HBSS + 0.1% BSA and seeded at 400K cells/well in a 96 well plate. Cells were treated with a TREM2 Activator at the indicated concentrations for 10 minutes and lysed with 5X Lysis Buffer. Assayed separately for Phospho (Tyr91) and Total DAP12, and Phospho SYK (Tyr525/526) using respective *SureFire Ultra* kits. Equivalent to approximately 16,000 cells or 1,600 cells/datapoint (DAP12 Total).



Data obtained with a 2-plate, 2-incubation protocol. THP1 Wild Type cells (WT) and THP1-DAP12 Knockout cells (KO) were harvested at 800K/mL and washed in HBSS + 0.1% BSA. Cells were seeded at 400K cells/well in a 96 well plate and incubated with Concanavalin A at the indicated concentrations for 10 minutes. Cells were spun down, washed in HBSS and lysed in Lysis Buffer. Assayed separately for Phospho (Tyr91), Total DAP12 and Total TREM2 using respective *SureFire Ultra* kits. Equivalent to approximately 20,000 cells/datapoint (Phospho DAP12 Tyr91) or 2,000 cells/datapoint (Total DAP12 and Total TREM2).



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