AlphaLISA® *SureFire® Ultra™*

# Human TREM2/DAP12 Complex Detection Kit

**Product number:** ALSU-TTRMDP-A500, ALSU-TTRMDP-A10K, ALSU-TTRMDP-A50K, ALSU-TTRMDP-A-HV

**Kit specificity:**

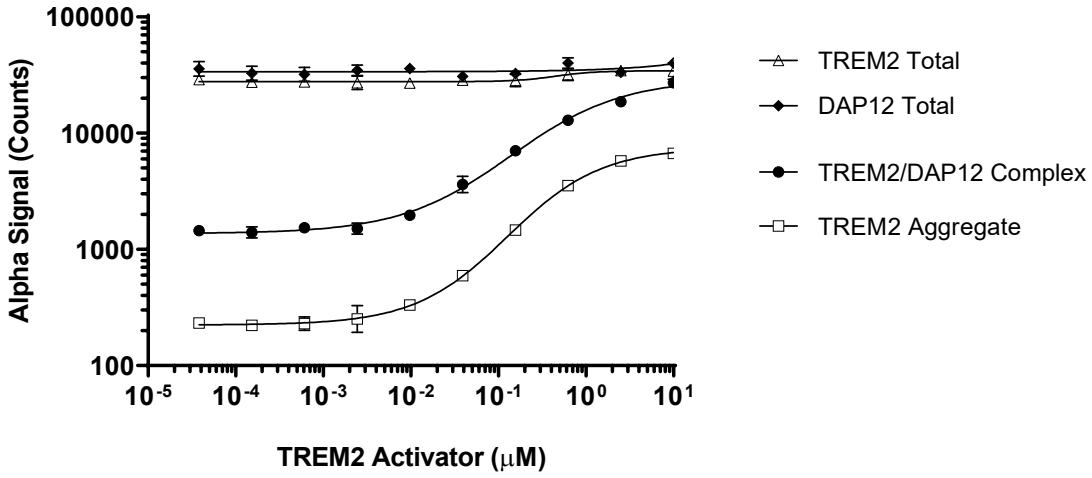
This assay kit contains antibodies which recognize distinct epitopes on TREM2 and DAP12. The protein detected by this kit corresponds to UniProt ID's Q9NZC2 (TREM2) and O43914 (DAP12) and a positive signal will only be achieved when the TREM2 and DAP12 proteins are complexed together. These antibodies recognize TREM2/DAP12 of human origin. Other species should be tested on a case-by-case basis.

**Control lysate information:**

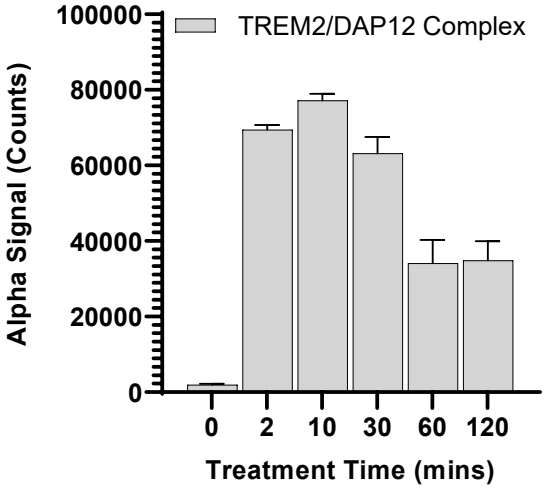
Positive Control Lysate: Prepared from THP1 cells, seeded at 400K/mL and grown overnight in T175 flasks in medium containing 10% FBS. Cells were washed with HBSS and lysed with Lysis Buffer at a final concentration of $10x10^6$ cells/mL.

**Representative data**

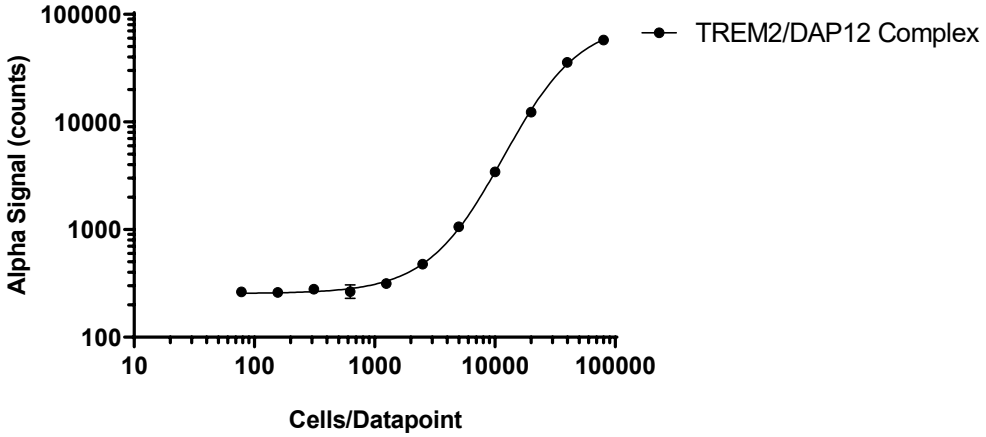
Data obtained with a 2-plate, 2-incubation protocol. THP1 cells were prepared at 600K/mL in 10% FBS containing medium and treated with 35 ng/mL TGFβ for 20 hours. Cells were washed with HBSS + 0.1% BSA and seeded at 400K cells/well in a 96 well plate. Cells were treated with a TREM2 Activator at the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



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 washed with HBSS + 0.1% BSA and seeded at 400K cells/well in a 96 well plate. Cells were treated with 10 µM TREM2 Activator for the indicated time points, lysed with 5X Lysis Buffer and assayed for TREM2/DAP12 Complex. Equivalent to approximately 16,000 cells/datapoint.




Control lysate prepared from THP1 cells was serially diluted in Lysis buffer and assayed for TREM2/DAP12 Complex. Approximate number of cells/datapoint is indicated.






**Revvity, Inc.**
940 Winter Street
Waltham, MA 02451 USA

(800) 762-4000
www.revvity.com