AlphaLISA™ *SureFire® Ultra™*

Human MERTK Total Detection Kit

Product number: ALSU-TMERTK-A500, ALSU-TMERTK-A10K, ALSU-TMERTK-A50K, ALSU-TMERTK-A-HV

Kit specificity:

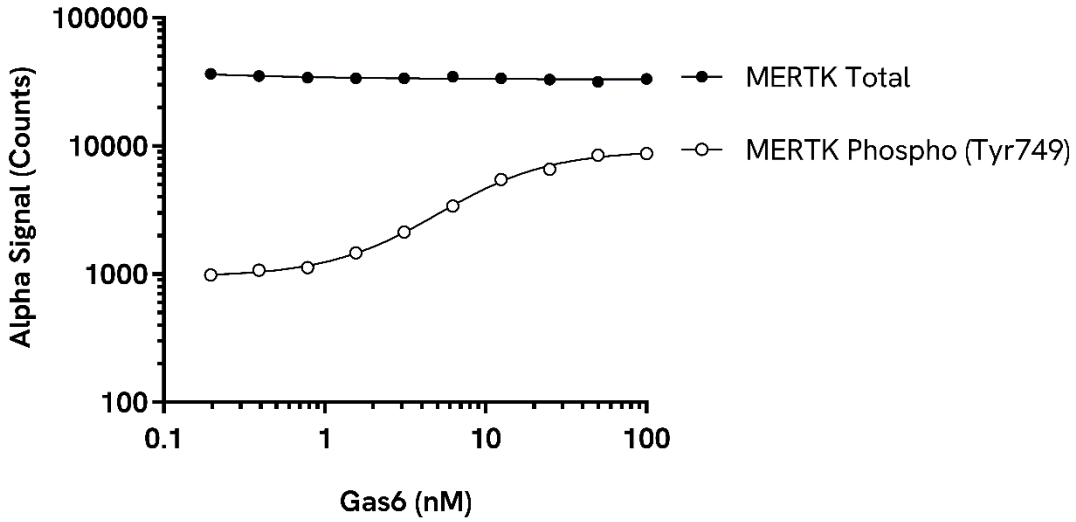
This assay kit contains antibodies which recognize distinct epitopes on MERTK. The protein detected by this kit corresponds to UniProt ID Q12866. MERTK is also known as Receptor tyrosine kinase Mer and Proto-oncogene c-Mer. These antibodies recognize MERTK of human origin. Other species should be tested on a case-by-case basis.

Control lysate information:

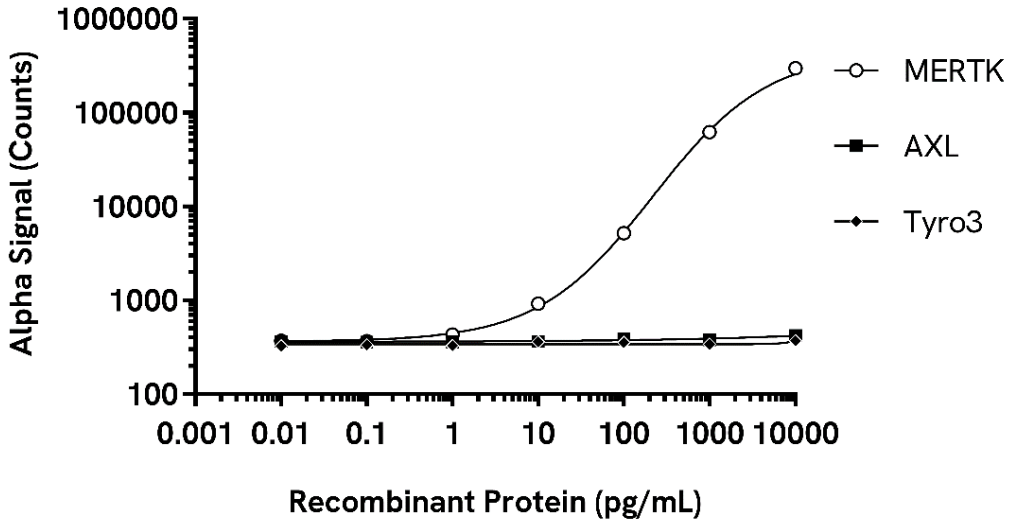
Positive Control Lysate: Prepared from HepG2 cells, cultured to confluence in T175 flasks in 10% FBS containing medium. Cells were treated with 20 mM H_2O_2 for 15 minutes and lysed with 4 mL of Lysis Buffer.

Representative data:

Data obtained with a 2-plate, 2-incubation protocol. PANC-1 cells were seeded at 40K cells/well in a 96 well plate and incubated overnight. Cells were treated with Gas6 at the indicated concentrations for 15 minutes. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Tyr749) and Total MERTK using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint.



MERTK, AXL and Tyro3 recombinant human proteins were serially diluted with Lysis Buffer and evaluated using the MERTK Total *SureFire Ultra* kit. No cross-reactivity against AXL and Tyro3 was observed despite sharing up to 46% similarity with MERTK.



Data obtained from measurement of MERTK Total in various cell types. Adherent cell lines were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were lysed with 100 µL of Lysis Buffer. Suspension cell lines were seeded at 100K cells/well in a 96-well plate in HBSS + 0.1% BSA, cells were spun down and lysed with 100 µL of Lysis Buffer. Suspension cell lysates were further diluted 1:2.5 with Lysis Buffer. Approximately 4,000 cells/datapoint for the various cell lines.