

AlphaLISA® SureFire® Ultra™

Human IRAK1 Total Detection Kit

Product number: ALSU-TIRAK1-A500, ALSU-TIRAK1-A10K,
ALSU-TIRAK1-A50K, ALSU-TIRAK1-A-HV



Kit specificity:

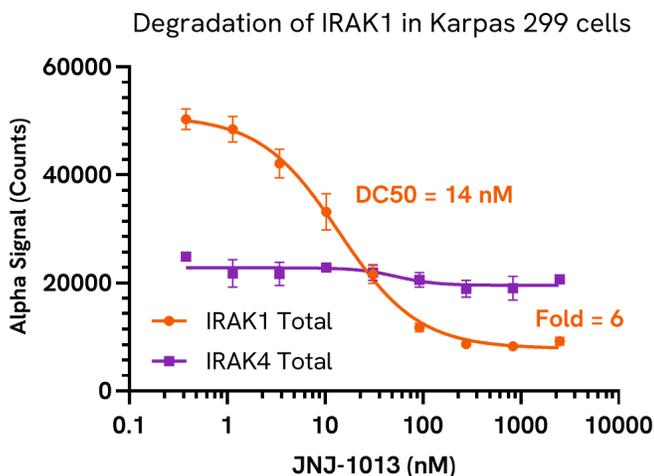
This assay kit contains antibodies which recognize distinct epitopes on IRAK1. The protein detected by this kit corresponds to UniProt ID P51617. IRAK1 is also known as Interleukin-1 receptor-associated kinase 1. These antibodies recognize IRAK1 of human origin. Other species should be tested on a case-by-case basis.

Control lysate information:

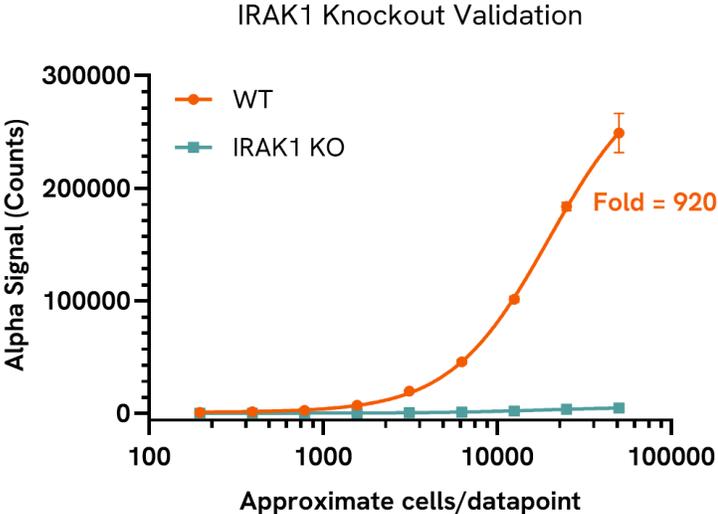
Positive Control Lysate: Prepared from HEK293T cells cultured to confluence in T175 flasks in 10% FBS containing medium and lysed with 4 mL of Lysis Buffer.

Representative data:

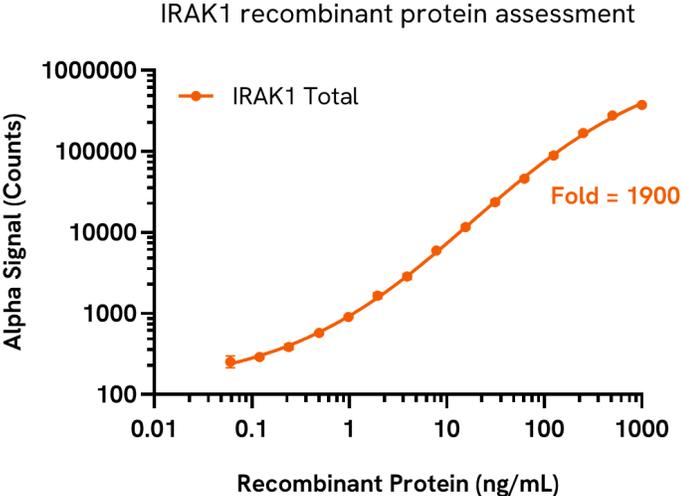
Data obtained with a 2-plate, 2-incubation protocol. Karpas 299 cells were harvested and seeded in a 96-well plate at 200,000 cells/well and treated with increasing concentrations of JNJ-1013 (IRAK1 PROTAC) for 18 hours. Cells were lysed with Lysis Buffer and assayed separately for IRAK1 and IRAK4 Total using respective *SureFire Ultra* kits. Equivalent to approximately 20,000 cells/datapoint.



IRAK1 Total levels were assessed in HAP1 wild type (WT) and HAP1 IRAK1 knockout (KO) cells. Cells were cultured to confluency in T175 flasks and lysed in 4 mL of Lysis Buffer. Lysates were serially diluted in Lysis Buffer and IRAK1 Total levels were evaluated using the *SureFire Ultra* kit. Approximate number of cells/datapoint is indicated.

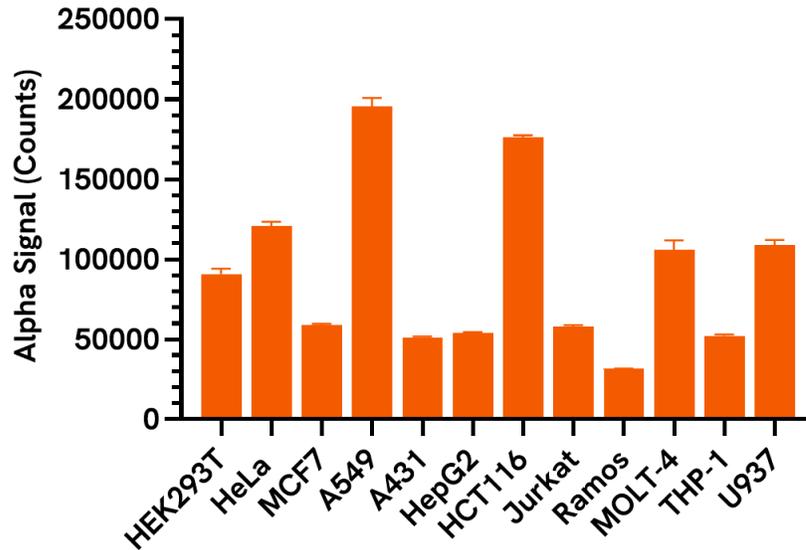


Sensitivity of the Total IRAK1 assay was assessed by assaying recombinant IRAK1 protein (ab268680). Dilutions of recombinant IRAK1 protein were prepared in Lysis Buffer and evaluated using the *SureFire Ultra* kit.



Data obtained from measurement of IRAK1 Total in various cell types lysed with Lysis Buffer. Equivalent to approximately 4,000 cells/datapoint for adherent cells or 40,000 cells/datapoint for suspension cells.

Expression of IRAK1 in various cell lines



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