AlphaLISA™ *SureFire*® Biotin Free

Human and Mouse ITK Total Detection Kit

Product number: ASBF-TITK-A500, ASBF-TITK-A10K, ASBF-TITK-A50K, ASBF-TITK-A-HV

Kit specificity:

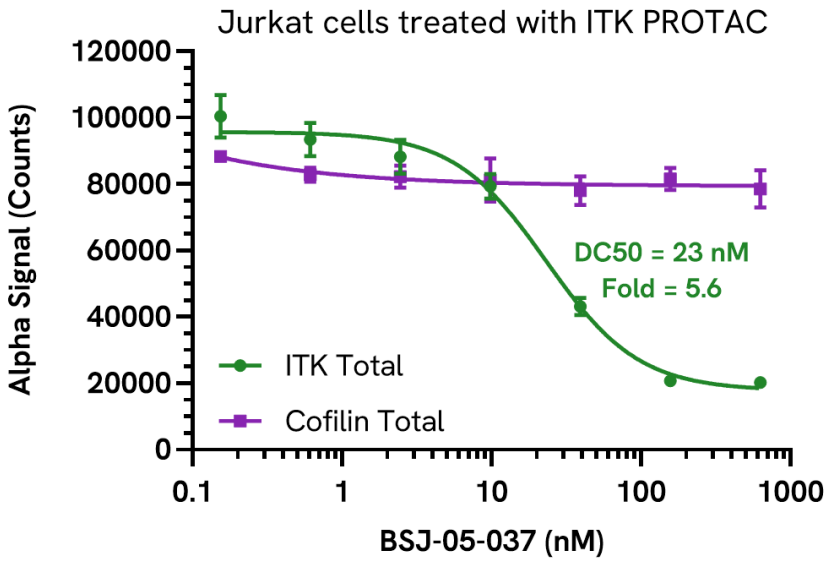
This assay kit contains antibodies which recognize distinct epitopes on ITK. The protein detected by this kit corresponds to UniProt ID Q08881. ITK is also known as Interleukin-2-inducible T-cell kinase and Kinase EMT. These antibodies recognize ITK of human and mouse origin. Other species should be tested on a case-by-case basis.

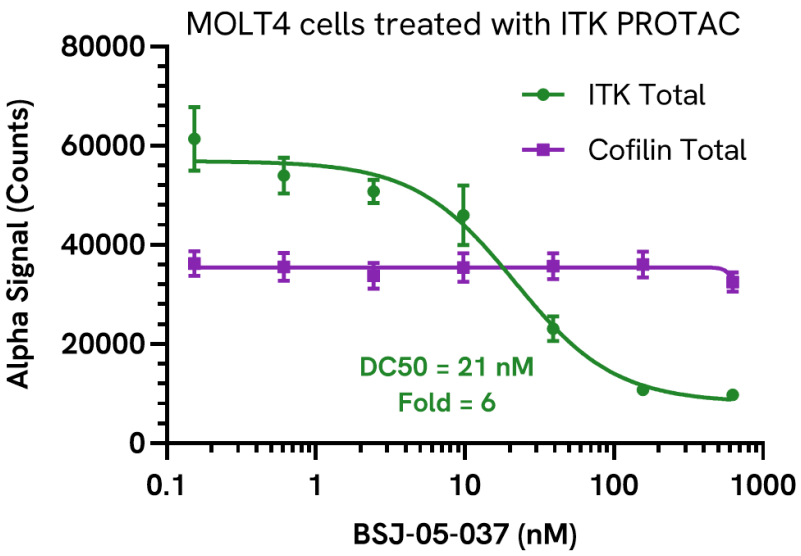
Control lysate information:

Positive Control Lysate: Prepared from Jurkat cells, cultured in T175 flasks with 10% FBS containing medium and lysed at 1.2 x 10^6 cells/mL in Lysis Buffer.

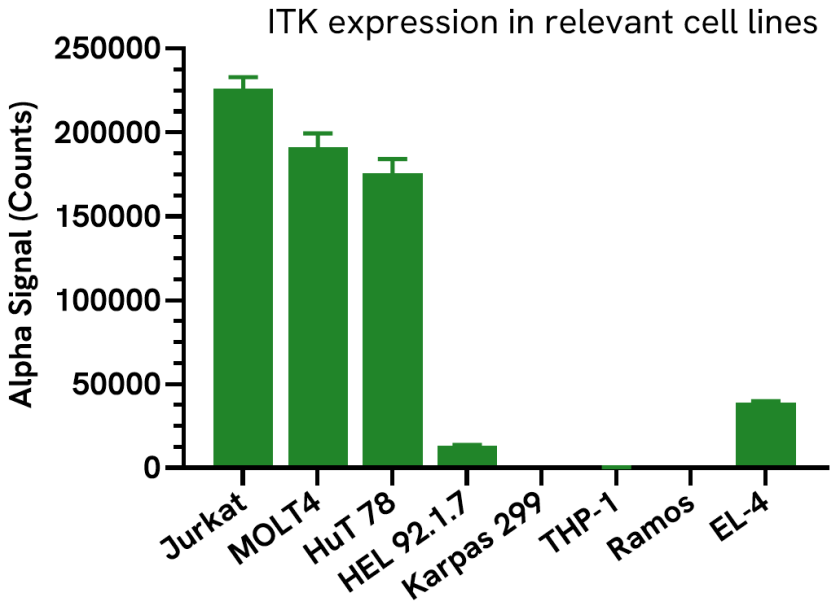
Representative data:

Data obtained with a 2-plate, 2-incubation protocol. Jurkat and MOLT-4 cells were seeded at 50K cells/well in two separate 96-well plates. Cells were treated with increasing concentrations of ITK PROTAC, BSJ-05-037 for 24 hours. After treatment, cells were spun down, lysed with Lysis Buffer and assayed separately for Total ITK and Cofilin using respective *SureFire* Biotin Free kits. Equivalent to approximately 5,000 cells/datapoint.

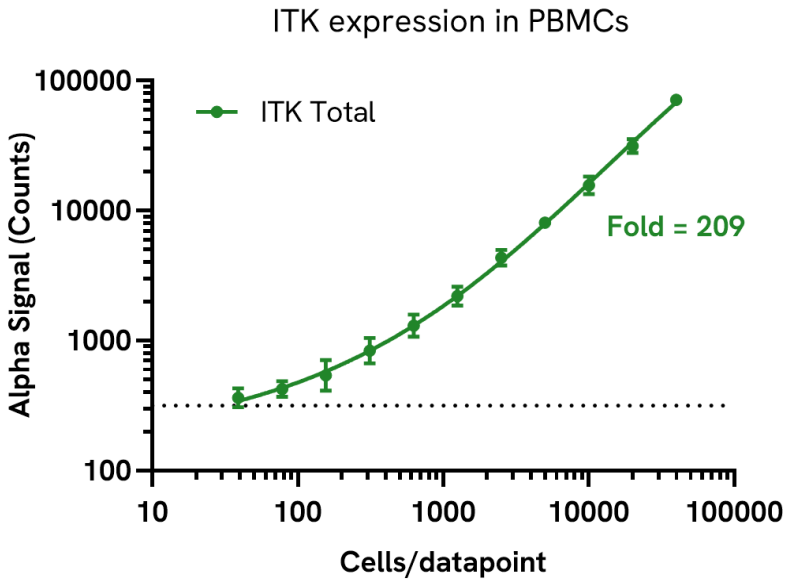




Data obtained from measurement of ITK in suspension cell lines lysed with Lysis Buffer. Equivalent to approximately 10,000 cells/datapoint.



Data obtained from measurement of ITK in Peripheral Blood Mononuclear Cells (PBMCs). PBMCs were isolated from healthy donors using Ficoll Plaque Plus. Cells were lysed with Lysis Buffer, lysates were serially diluted and assayed for Total ITK using the *SureFire* Biotin Free kit. Approximate number of cells/datapoint is indicated on the graph. The assay can detect ITK in less than 1,000 cells. Dotted line represents assay background.



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