

AlphaLISA™ SureFire® Biotin Free

Human NLRP3 Total Detection Kit

Product number: ASBF-TNLRP3-A500, ASBF-TNLRP3-A10K,
ASBF-TNLRP3-A50K, ASBF-TNLRP3-A-HV



Kit specificity:

This assay kit contains antibodies which recognize distinct epitopes on NLRP3. The protein detected by this kit corresponds to UniProt ID Q96P20. NLRP3 is also known as Cryopyrin and PYD domains-containing protein 3. These antibodies recognize NLRP3 of human origin. Other species should be tested on a case-by-case basis.

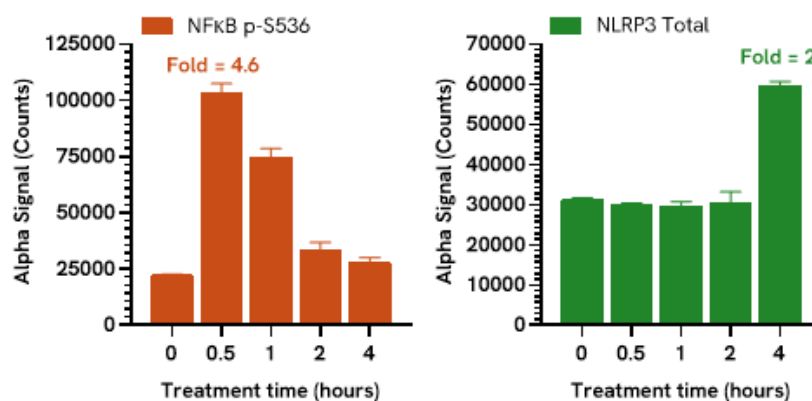
Control lysate information:

Positive Control Lysate: Prepared from untreated THP-1 cells cultured in 10% FBS containing medium and lysed with Lysis Buffer at a final density of 2×10^6 cells/mL.

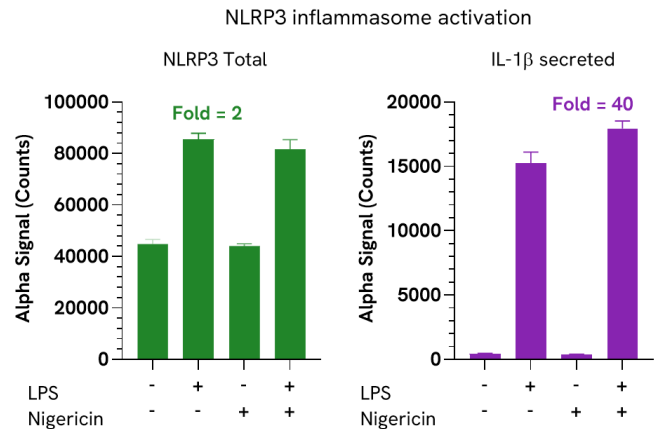
Representative data:

Data obtained with a 2-plate, 2-incubation protocol. THP-1 TLR4 overexpressing cells were seeded at 100,000 cells/well in a 96 well plate and treated with 1 μ g/mL LPS for the indicated time points. Cells were lysed with 100 μ L Lysis Buffer and assayed separately for Total NLRP3 and Phospho NF κ B (Ser536) using respective SureFire Biotin Free kits. Equivalent to approximately 10,000 cells/datapoint (NLRP3) or 1,000 cells/datapoint (Phospho NF κ B).

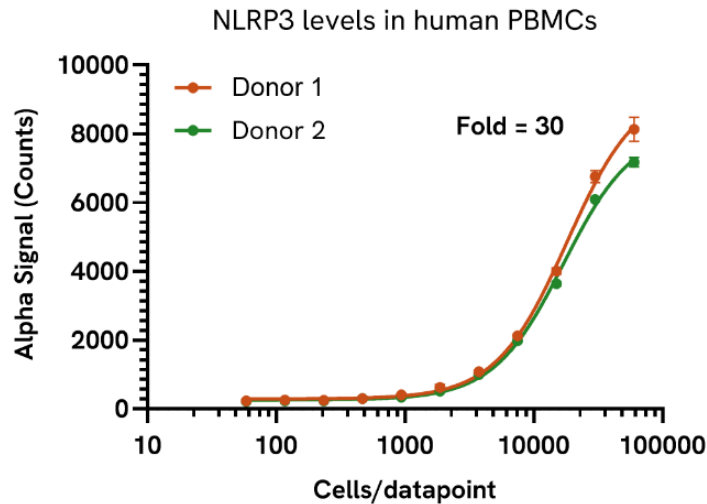
LPS time course in TLR4 OE cells



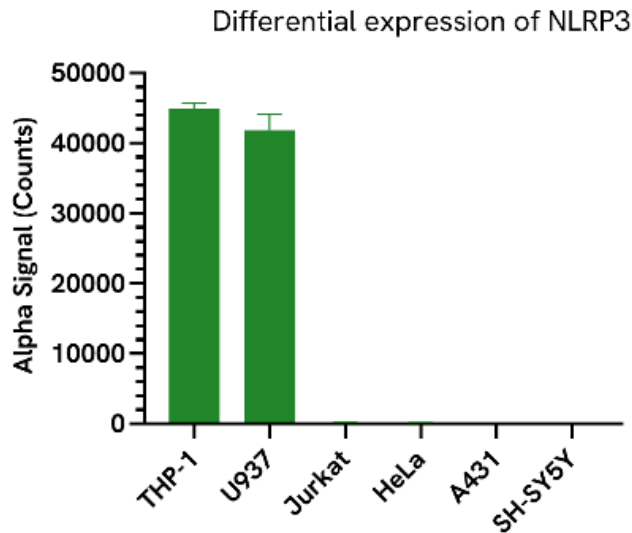
Data obtained with a 2-plate, 2-incubation protocol. THP-1 TLR4 overexpressing cells were seeded at 150,000 cells/well in a 96 well plate and left untreated or treated with LPS (500 ng/mL, 4h), Nigericin (10 μ M, 30 minutes) or LPS + Nigericin (LPS 4h + Nig 30 minutes). After treatment, cells were spun down, supernatant harvested and cells were lysed with 100 μ L Lysis Buffer. NLRP3 Total levels were evaluated in the cell lysate using the *SureFire* Biotin Free assay, while the presence of IL-1 β was evaluated in the collected supernatants. equivalent to approximately 15,000 cells/datapoint.



Data obtained from measurement of NLRP3 levels in Peripheral Blood Mononuclear cells (PBMC). PBMCs were isolated from healthy donors and cells were lysed at 6×10^6 cells/mL with Lysis Buffer. Lysates were serially diluted in Lysis Buffer and assayed for NLRP3 Total using the *SureFire* Biotin Free assay.



Data obtained from measurement NLRP3 in various cell types lysed with Lysis Buffer. Equivalent to approximately 4,000 adherent or 10,000 suspension cells/datapoint.



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