AlphaLISA™ *SureFire*® Biotin Free

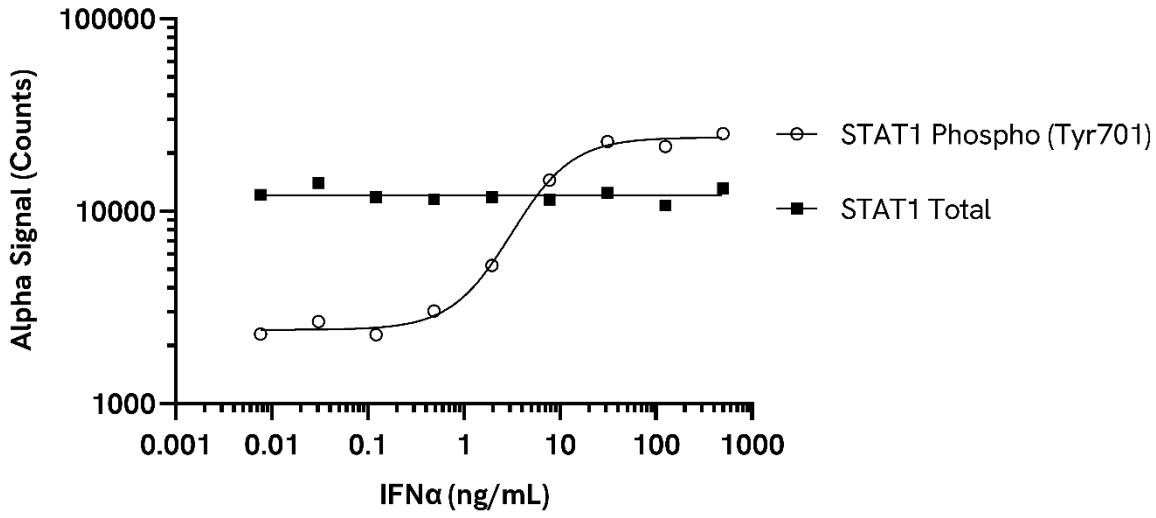
Human and Mouse p-STAT1 (Tyr701) Detection Kit

Product number: ASBF-PST1-A500, ASBF-PST1-A10K, ASBF-PST1-A50K, ASBF-PST1-A-HV

Kit specificity:
This assay kit contains antibodies which recognize the phospho-Tyr701 epitope and a distal epitope on signal transducer and activator of transcription 1-α/β (STAT1). The protein detected by this kit corresponds to UniProt ID P42224. STAT1 is also known as transcription factor ISGF-3 components p91/p84. These antibodies recognize STAT1 of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:
Positive Control Lysate: Prepared from HeLa cells cultured to confluence in T175 flasks in 10% FBS containing medium. Cells were treated with 0.6 M Sorbitol for 20 minutes and then treated with 200 ng/mL human IFNγ for a further 20 minutes. Cells were lysed with 6 mL of Lysis Buffer.

Representative data:
Data obtained using a 2-plate, 2-incubation protocol. THP-1 cells were seeded at 50K cells/well in a 96-well plate in complete RPMI 1640 medium containing 100 nM PMA for 24 hours. Cells were starved for 2 hours and then treated with IFNα at the indicated concentrations for 20 minutes. Cells were lysed with the addition of 5X Lysis Buffer and assayed separately for Phospho (Tyr701) and Total STAT1 using respective *SureFire* Biotin Free kits. Equivalent to approximately 1,000 cells/datapoint.



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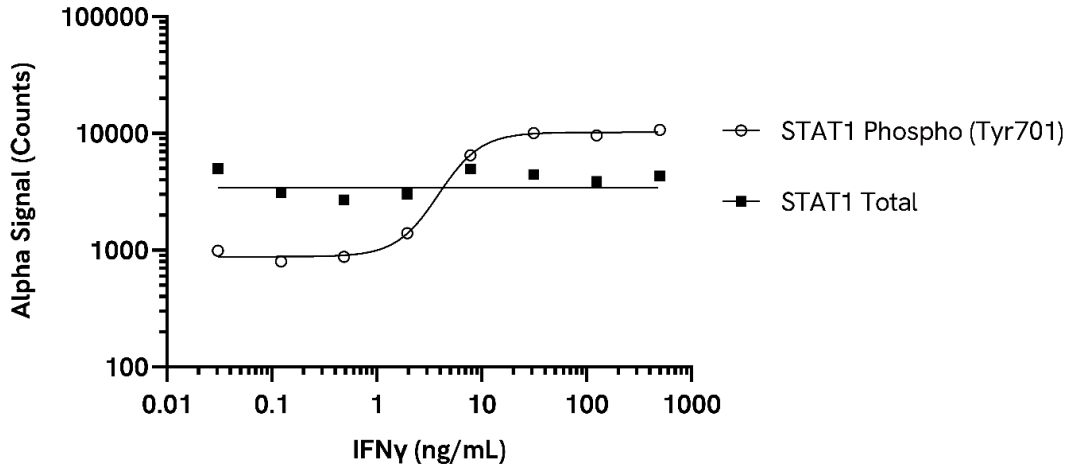

Data obtained using a 2-plate, 2-incubation protocol. RAW 264.7 cells were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were treated with mouse IFNγ at the indicated concentrations for 20 minutes. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Tyr701) and Total STAT1 using respective *SureFire* Biotin Free kits. Equivalent to approximately 4,000 cells/datapoint.