

AlphaLISA™ SureFire® Biotin Free

Human and Mouse p-STAT3 (Tyr705) Detection Kit

Product number: ASBF-PST3-A500, ASBF-PST3-A10K,
ASBF-PST3-A50K, ASBF-PST3-A-HV



Kit specificity:

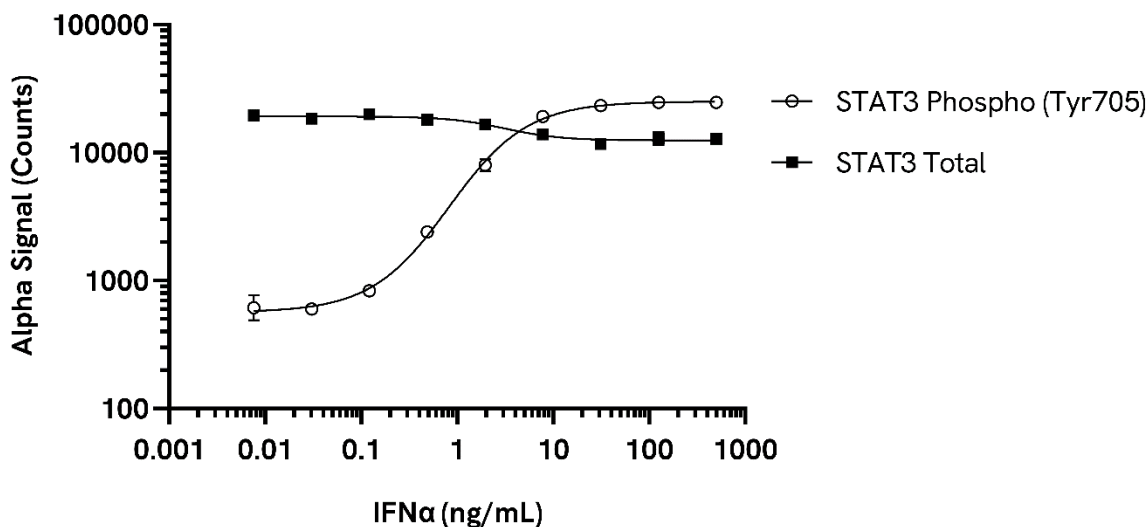
This assay kit contains antibodies which recognize the phospho-Tyr705 epitope and a distal epitope on signal transducer and activator of transcription 3 (STAT3). The protein detected by this kit corresponds to UniProt ID P40763. STAT3 is also known as Acute-phase response factor. These antibodies recognize STAT3 of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

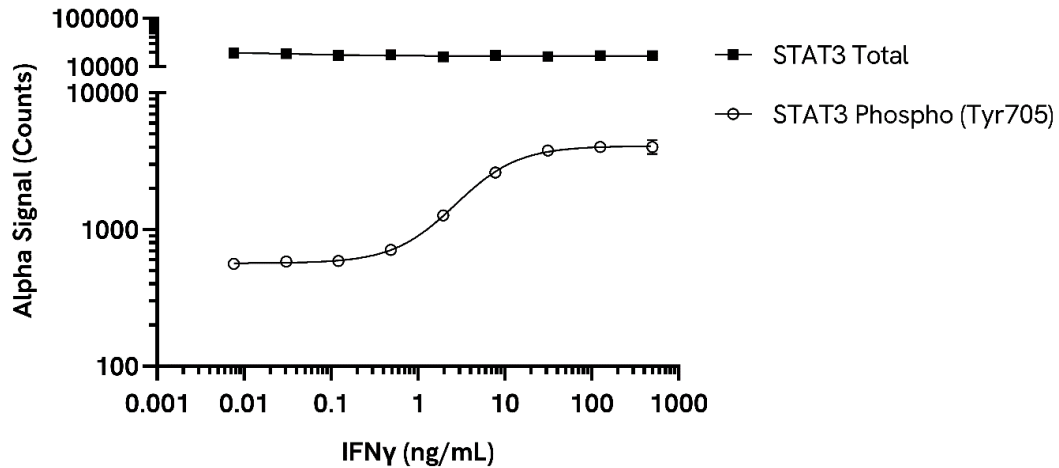
Positive Control Lysate: Prepared from A431 cells cultured to confluence in T175 flasks in 10% FBS containing medium, treated with 2 µg/mL EGF for 10 minutes and lysed with 5 mL of Lysis Buffer.

Representative data:

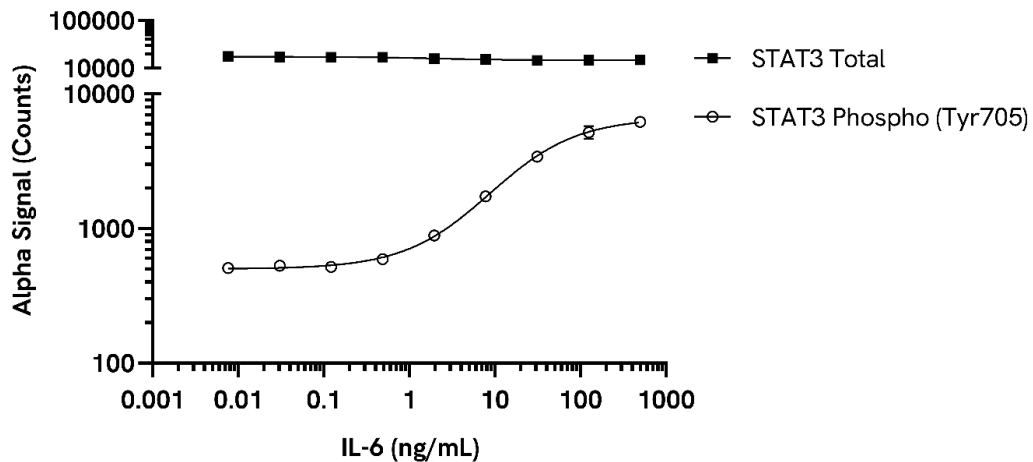
Data obtained using a 2-plate, 2-incubation protocol. THP-1 cells were seeded at 50K cells/well in a 96-well plate in complete RPMI 1640 medium containing 100 nM PMA for 24 hours. Cells were starved for 2 hours and then treated with IFNα at the indicated concentrations for 20 minutes. Cells were lysed with the addition of 5X Lysis Buffer and assayed separately for Phospho (Tyr705) and Total STAT3 using respective SureFire Biotin Free kits. Equivalent to approximately 10,000 cells/datapoint.



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 IFN γ at the indicated concentrations for 20 minutes. Cells were lysed with the addition of 5X Lysis Buffer and assayed separately for Phospho (Tyr705) and Total STAT3 using respective *SureFire* Biotin Free kits. Equivalent to approximately 10,000 cells/datapoint.



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 IL-6 at the indicated concentrations for 20 minutes. Cells were lysed with the addition of 5X Lysis Buffer and assayed separately for Phospho (Tyr705) and Total STAT3 using respective *SureFire* Biotin Free kits. Equivalent to approximately 10,000 cells/datapoint.



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