

AlphaLISA™ SureFire® Biotin Free

Human and Mouse p-STAT3 (Tyr705) High Performance Detection Kit

Product number: ASBF-PST3-B500, ASBF-PST3-B10K,
ASBF-PST3-B50K, ASBF-PST3-B-HV



Kit specificity:

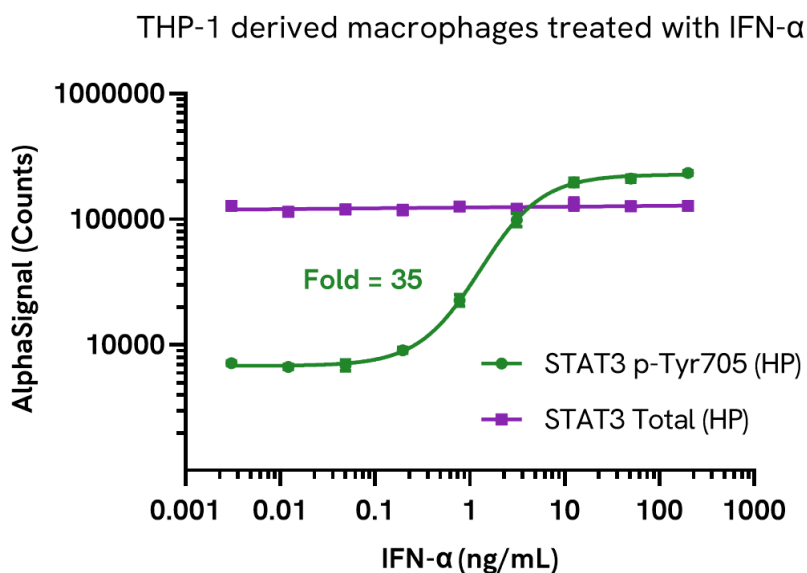
This assay kit contains antibodies which recognize the phospho-Tyr705 epitope and a distal epitope on STAT3. The protein detected by this kit corresponds to UniProt ID P40763. STAT3 is also known as Signal Transducer and Activator of Transcription 3. These antibodies recognize STAT3 of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

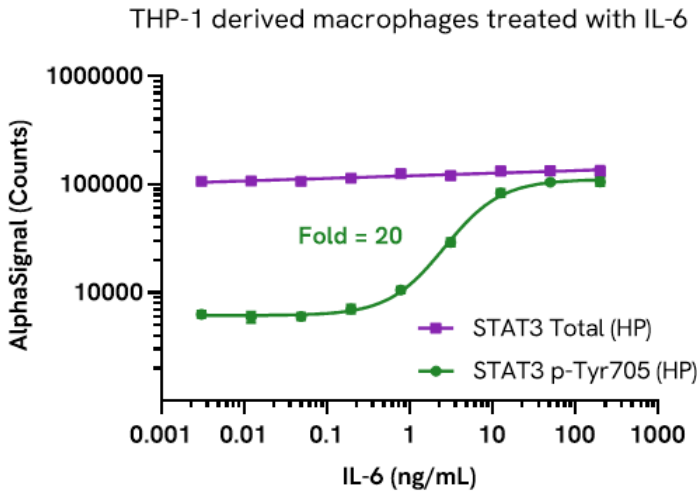
Positive Control Lysate: Prepared from A431 cells, cultured to confluence in T175 flasks in 10% FBS containing medium, then treated with 2 µg/mL EGF for 10 minutes and lysed with 5 mL of Lysis Buffer.

Representative data:

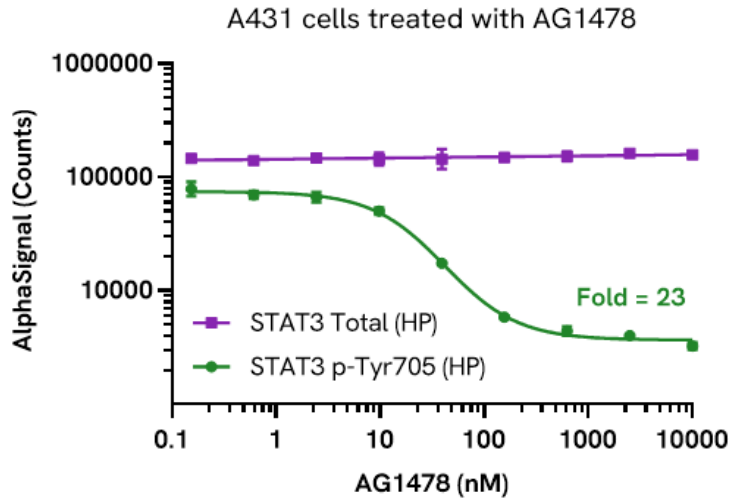
Data obtained with a 2-plate, 2-incubation protocol. THP-1 cells were seeded in a 96-well plate (50,000 cells/well) in complete medium containing 100 nM PMA and incubated for 24 hours. The THP-1 derived macrophages were serum starved for 2 hours and then stimulated with increasing concentrations of IFN α for 20 minutes. After treatment, the cells were lysed with Lysis Buffer and assayed separately for Phospho (Tyr705) and Total STAT3 using respective SureFire Biotin Free High Performance kits. Equivalent to approximately 5,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. THP-1 cells were seeded in a 96-well plate (50,000 cells/well) in complete medium containing 100 nM PMA and incubated for 24 hours. The THP-1 derived macrophages were serum starved for 2 hours and then stimulated with increasing concentrations of IL-6 for 30 minutes. After treatment, the cells were lysed with Lysis Buffer and assayed separately for Phospho (Tyr705) and Total STAT3 using respective *SureFire* Biotin Free High Performance kits. Equivalent to approximately 5,000 cells/datapoint



Data obtained with a 2-plate, 2-incubation protocol. A431 cells were seeded in a 96-well plate (40,000 cells/well) in complete medium and incubated overnight. Cells were then treated with increasing concentrations of AG1478 for 2 hours and then stimulated with a fixed 100 ng/mL of EGF for 15 minutes. After treatment, the cells were lysed with Lysis Buffer and assayed separately for Phospho (Tyr705) and Total STAT3 using respective *SureFire* Biotin Free High Performance kits. Equivalent to approximately 4,000 cells/datapoint.



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