SONY

Product Data Sheet

PerCP/Cyanine5.5 anti-STAT3 Phospho (Tyr705)

Catalog # / Size: 3855110 / 100 tests
3855105 / 25 tests

Clone: 13A3-1

Isotype: Mouse IgG1, κ

Immunogen: KLH conjugated modified synthetic peptide

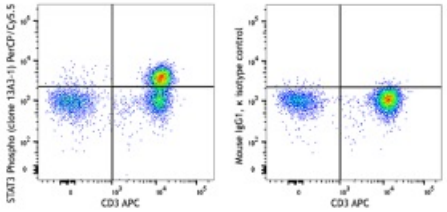
Reactivity: Human, Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: IV T-164

Concentration: Lot-specific



Human whole blood was stimulated with (left) or without (right) IL-6 for 15 minutes, then treated with RBC Lysis/Fixation Solution (Cat No. 422401), and permeabilized with True-Phos™ Perm Buffer (Cat. No. 425401), then stained with CD3 APC and STAT3 pY705 (clone 13A3-1) PerCP/Cy5.5.

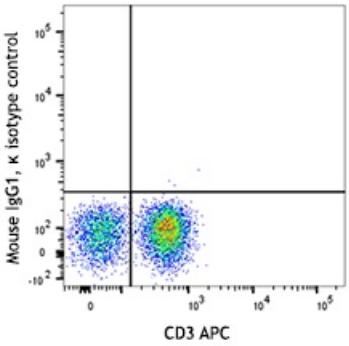
Applications:

Applications: Intracellular Staining for Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Phos™ Perm Buffer in Whole Blood Protocol. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application Notes: The STAT3 Phospho (Tyr705) antibody recognizes the regulatory tyrosine phosphorylation of human STAT3 protein and has been shown to be useful for Western blotting.



Human whole blood was stimulated with (top) or without (bottom) IL-6 for 15 minutes

Application References:

1. Akira S, *et al.* 1994. *Cell* 77:63.
2. Zhang X, *et al.* 1995. *Science* 267:1990.
3. Sanchez-Margalet V, *et al.* 2001. *Cell. Immunol.* 211:30.
4. Simon A, *et al.* 2000. *Sci*

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Description: Tyrosine phosphorylation of STAT3 at Tyr705 occurs in response to LIF, IL-6, leptin, OSM, EGF, PDGF, and HGF. It plays a key role in cell growth and apoptosis through mediating expression of a variety of genes in response to the stimuli.

Antigen References:

1. Akira S, *et al.* 1994. *Cell* 77:63.
2. Zhang X, *et al.* 1995. *Science* 267:1990.
3. Sanchez-Margalet V, *et al.* 2001. *Cell. Immunol.* 211:30.
4. Simon A, *et al.* 2000. *Science* 290:144.
5. Hoey T, *et al.* 1999. *Adv. Immunol.* 71:145.

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