

Anti-Phospho-Stat6-149Sm

Catalog: 3149004A

Clone: 18/P-Stat6

Package Size: 50 tests

Isotype: IgG2a

Storage: Store product at 4°C. Do not freeze.

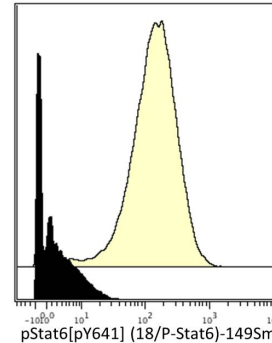
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human Jurkat T cells were incubated for 15 minutes in media alone (bottom) or with pervanadate (top). Cells were then fixed, permeabilized, and stained with 149Sm-anti-pSTAT6 [pY641] (18/P-Stat6).

Description

STAT6 is a transcription factor involved in the response to the related cytokines IL-4 and IL-13, as well as other stimuli such as PDGF. Canonically, cytokine receptor engagement facilitates recruitment of STAT6 to members of the JAK family, which activate it by phosphorylation at Tyr641. Non-JAK-mediated activation has been reported downstream of viral infection, poly(I:C) treatment, or the oncogenic fusion protein BCR/ABL p190. Activated STAT6 can form homodimers or heterodimers with other STAT proteins, translocate to the nucleus, and bind DNA to facilitate transcription of target genes, including many involved in Th2 polarization.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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