

Anti-pStat1[Y701]-153Eu

Catalog: 3153003A

Package size: 50 tests

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

Cross-reactivity: Mouse, Human

Clone: 58D6

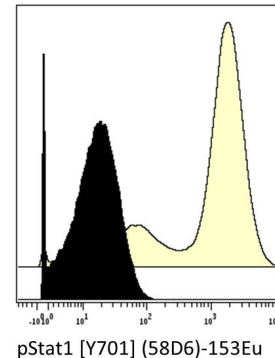
Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% sodium azide

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 153Eu-anti-pSTAT1 [Y701] (58D6).

Description

STAT1 is a transcription factor involved in the response to multiple cytokines including IFN α , IFN γ , IL-6, LIF, EGF, PDGF, and others. Cytokine receptor engagement allows recruitment of STAT1 to members of the JAK family, which activate it by phosphorylation at Tyr701. Activated STAT1 can form homodimers or heterodimers with other STAT proteins, translocate to the nucleus, and bind DNA to facilitate gene transcription. A second phosphorylation event at Ser727 of STAT1 by the MAPK pathway may be required for maximal transcriptional activity.

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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

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