Product Datasheet

STAT1 Rabbit mAb

Catalog No: #48752

Package Size: #48752-1 50ul #48752-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

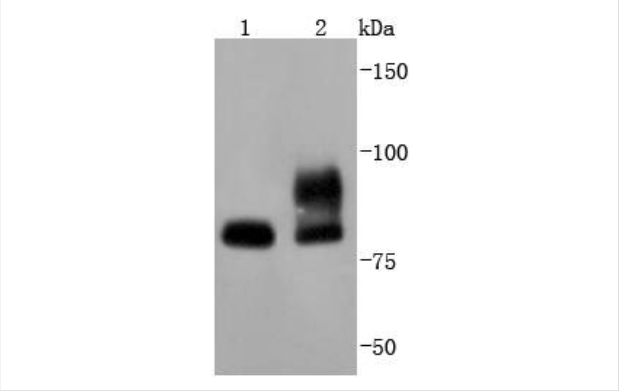
Product Name	STAT1 Rabbit mAb
Clone No.	SJ01-89
Purification	ProA affinity purified
Applications	WB, IP, FC
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Other Names	Signal transducer and activator of transcription 1 91kD antibody CANDF7 antibody DKFZp686B04100 antibody IMD31A antibody IMD31B antibody IMD31C antibody ISGF 3 antibody ISGF-3 antibody OTTHUMP00000163552 antibody OTTHUMP00000165046 antibody OTTHUMP00000165047 antibody OTTHUMP00000205845 antibody Signal transducer and activator of transcription 1 91kDa antibody Signal transducer and activator of transcription 1 antibody Signal transducer and activator of transcription 1, 91kD antibody Signal transducer and activator of transcription 1-alpha/beta antibody STAT 1 antibody Stat1 antibody STAT1_HUMAN antibody STAT91 antibody Transcription factor ISGF 3 components p91 p84 antibody Transcription factor ISGF-3 components p91/p84 antibody
Accession No.	Swiss-Prot#:P42224
Calculated MW	83/87 kDa
Formulation	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

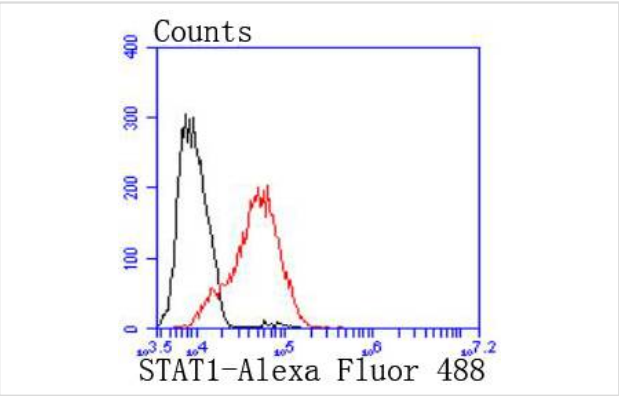
WB: 1:1,000-1:2,000

FC: 1:50-1:100

Images



Western blot analysis of STAT1 on different lysates using anti-STAT1 antibody at 1/1,000 dilution. Positive control:
Lane 1: 293 Lane 2: NIH/3T3



Flow cytometric analysis of MCF-7 cells with STAT1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN-α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by Prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.

References

1. Shakya R et al. Hypomethylating therapy in an aggressive stroma-rich model of pancreatic carcinoma. Cancer Res 73:885-96 (2013).
2. Syu LJ et al. Transgenic expression of interferon-? in mouse stomach leads to inflammation, metaplasia, and dysplasia. Am J Pathol 181:2114-25 (2012).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.