

STAT1 alpha Rabbit mAb

Catalog No: #49131



Package Size: #49131-1 50ul #49131-2 100ul

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

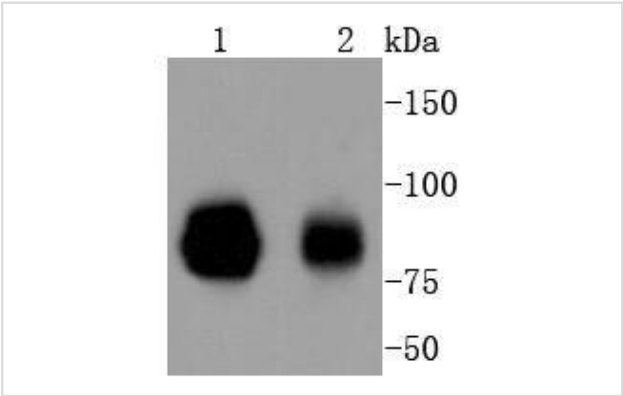
Description

Product Name	STAT1 alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD20-75
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CANDF7 antibody DKFZp686B04100 antibody ISGF 3 antibody ISGF3 antibody OTTHUMP00000163552 antibody OTTHUMP00000165046 antibody OTTHUMP00000165047 antibody OTTHUMP00000205845 antibody Signal transducer and activator of transcription 1 antibody Signal transducer and activator of transcription 1, 91kDa antibody Signal transducer and activator of transcription 1-alpha/beta antibody Stat1 antibody STAT1_HUMAN antibody STAT91 antibody Transcription factor ISGF-3 components p91/p84 antibody
Accession No.	Swiss-Prot#:P42224
Calculated MW	87 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

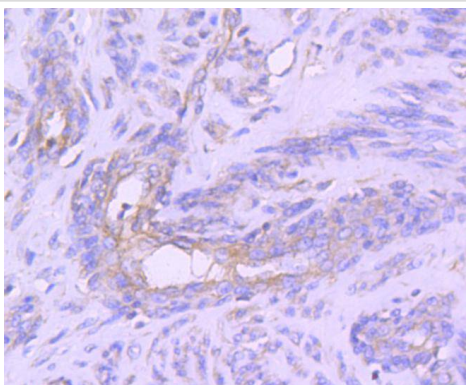
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

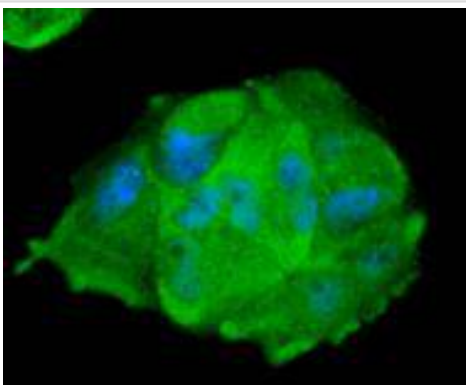
Images



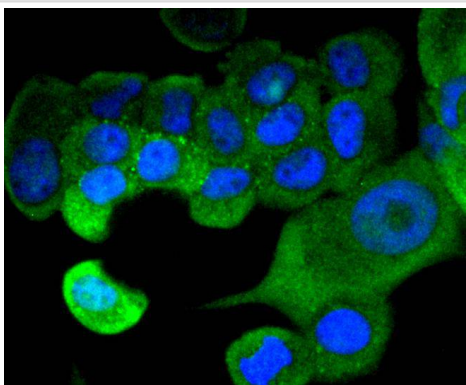
Western blot analysis of STAT1 on different lysates using anti-STAT1 alpha antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela Lane 2: 293



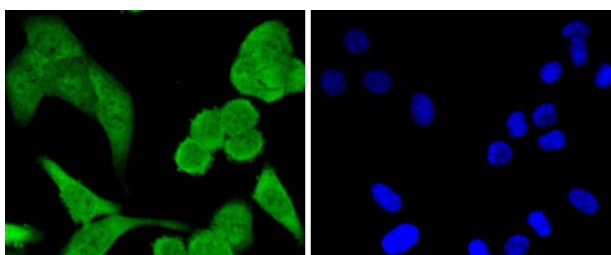
Immunohistochemical analysis of paraffin-embedded human cervix uteri tissue using anti-STAT1 alpha antibody. Counter stained with hematoxylin.



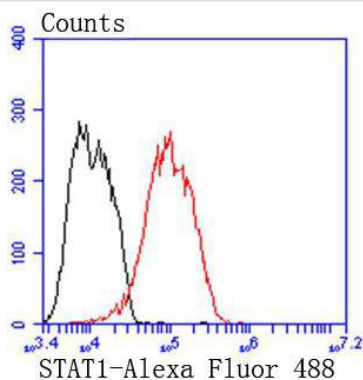
ICC staining STAT1 alpha in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining STAT1 alpha in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining STAT1 alpha in SKOV-3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of MCF-7 cells with STAT1 alpha 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 Stat3 β appears to be activated by both while Stat3 α 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. Nagakura I et al. STAT1 Regulates the Homeostatic Component of Visual Cortical Plasticity via an AMPA Receptor-Mediated Mechanism. *J Neurosci* 34:10256-63 (2014).
2. Carlos TS et al. Parainfluenza virus 5 genomes are located in viral cytoplasmic bodies whilst the virus dismantles the interferon-induced antiviral state of cells. *J Gen Virol* 90:2147-56 (2009).

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