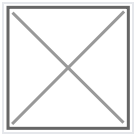
STAT1 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	STAT1, Antibody
Full Product Name	Anti-Hu STAT1 (pS727) Purified
Product Gene Name	anti-STAT1 antibody
Product Synonym Names	signal transducer and activator of transcription 1; CANDF7; IMD31; ISGF3
Isotype	IgG1
Clone Number	PSM1
Host	Mouse
Species Reactivity	Human
Form/Format	Phosphate buffered saline (PBS) solution with 15 mM sodium azide
Purity/Purification	Purified by Protein-A Affinity Chromatography
Concentration	1 mg/ml (lot specific)
Specificity	The antibody PSM1 recognizes transcriptional factor STAT1 (91 kDa) activated by phosphorylation at Ser727 (intracellular antigen).
Preparation and Storage	Store at 2-8 degree C.
OMIM	209950
3D Structure	ModBase 3D Structure for P42224
Immunogen	STAT1 peptide sequence 721-733 (Ser727 phosphorylated).
Applications Tested/Suitable for anti-STAT1 antibody	Immunoprecipitation, Western Blot (WB)
Related Product Information for anti-STAT1 antibody	STAT1 (signal transducer and activator of transcription 1) is a transcription factor that plays important roles in growth arrest, apoptosis promoting and tumour suppression. After ligation of cytokine receptors STAT1 becomes phosphorylated on Tyr701 by Janus kinase JAK1 or JAK2, dimerizes, translocates to nucleus and contacts DNA. STAT1-STAT2 heterodimers serve as more potent transcriptional inducers than STAT1 homodimers. STAT1 is also phosphorylated on Ser727 by MAPK pathway, independently of tyrosine phosphorylation. However, the both modifications are important for its maximal transcriptional activity. On the other hand, STAT1 phosphorylated on Ser727 is targeted for proteasomal degradation.
Other Notes	Small volumes of anti-STAT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for STAT1 purchase	MBS1801492 is an antibody targeting STAT1. Also known as Anti-Hu STAT1 (pS727) Purified. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-STAT1 antibody
Western blotting analysis (reducing conditions) of phosphorylated STAT1 (Ser727) in IFN-gamma treated HeLa human cervix carcinoma cell line using anti-Phospho STAT1 (PSM1).Lane 1: immunoprecipitated material by anti-STAT1 (SM2; cat. no. 11-405-C100)Lane 2: original whole cell lysate

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT1. It may not necessarily be applicable to this product.

NCBI GI #	6274552
NCBI GeneID	6772
NCBI Accession #	NP_009330.1
UniProt Primary Accession #	P42224
UniProt Related Accession #	P42224
GenBank Nucleotide #	NP_009330.1
NCBI Official Full Name	signal transducer and activator of transcription 1-alpha/beta isoform alpha
NCBI Official Synonym Full Names	signal transducer and activator of transcription 1
NCBI Official Symbol	STAT1
NCBI Official Synonym Symbols	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
UniProt Protein Name	Signal transducer and activator of transcription 1-alpha/beta
UniProt Synonym Protein Names	Transcription factor ISGF-3 components p91/p84
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT1
UniProt Entry Name	STAT1_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 1-alpha/beta
NCBI Summary for STAT1	The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

UniProt Comments for STAT1	STAT1: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of certain receptor tyrosine kinases, GPCRs, and receptors for various interleukins and interferons. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Two alternatively spliced isoforms have been described. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 2q32.2 Cellular Component: nucleoplasm; axon; nuclear chromatin; cytoplasm; dendrite; nucleolus; cytosol; nucleus Molecular Function: identical protein binding; signal transducer activity; protein binding; protein homodimerization activity; enzyme binding; double-stranded DNA binding; transcription factor activity; tumor necrosis factor receptor binding; CCR5 chemokine receptor binding Biological Process: transcription from RNA polymerase II promoter; response to peptide hormone stimulus; response to cAMP; viral reproduction; blood circulation; apoptosis; positive regulation of transcription, DNA-dependent; positive regulation of smooth muscle cell proliferation; negative regulation of transcription from RNA polymerase II promoter; regulation of apoptosis; response to exogenous dsRNA; tumor necrosis factor-mediated signaling pathway; positive regulation of mesenchymal cell proliferation; negative regulation of viral protein levels in host cell; lipopolysaccharide-mediated signaling pathway; defense response to virus; response to nutrient; response to drug; cytokine and chemokine mediated signaling pathway; negative regulation of I-kappaB kinase/NF-kappaB cascade; JAK-STAT cascade; regulation of transcription from RNA polymerase II promoter; negative regulation of angiogenesis; response to hydrogen peroxide; cellular response to insulin stimulus; response to mechanical stimulus; response to cytokine stimulus; negative regulation of endothelial cell proliferation; endothelial cell migration; positive regulation of transcription from RNA polymerase II promoter Disease: Immunodeficiency 31a; Immunodeficiency 31b; Immunodeficiency 31c
Research Articles on STAT1	**1.** Linear ubiquitination sustains STAT1 signaling homeostasis.STAT1 has linear ubiquitination at Lys511 and Lys652.Viruses upregulate STAT1 linear ubiquitination.
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