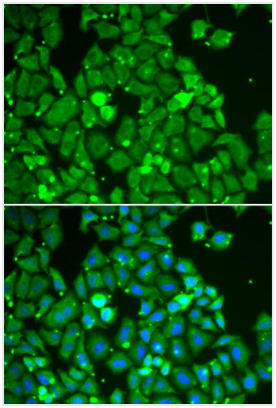
STAT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	STAT1, Polyclonal Antibody
Full Product Name	STAT1 Polyclonal Antibody
Product Gene Name	anti-STAT1 antibody
Product Synonym Names	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	87kDa
OMIM	M97935 mRNA
3D Structure	ModBase 3D Structure for P42224
Immunogen	Recombinant protein of human STAT1
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-STAT1 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-STAT1 antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-STAT1 antibody	WB: 1:500 - 1:2000 IF: 1:50 - 1:100
Related Product Information for anti-STAT1 antibody	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.
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	MBS9132230 is an antibody targeting STAT1. Also known as STAT1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunofluorescence (IF) of anti-STAT1 antibody
Immunofluorescence analysis of HeLa cells using STAT1 antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

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

NCBI GI #	2507413
NCBI GeneID	6772
NCBI Accession #	P42224.2
UniProt Primary Accession #	P42224
UniProt Secondary Accession #	Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7
UniProt Related Accession #	P42224
NCBI Official Full Name	Signal transducer and activator of transcription 1-alpha/beta
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
NCBI Protein Information	signal transducer and activator of transcription 1-alpha/beta

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: axon; cytoplasm; cytosol; dendrite; nuclear chromatin; nucleolus; nucleoplasm; nucleus; perinuclear region of cytoplasm Molecular Function: cadherin binding; double-stranded DNA binding; enzyme binding; identical protein binding; nuclear hormone receptor binding; protein binding; protein homodimerization activity; transcription factor activity; tumor necrosis factor receptor binding Biological Process: apoptosis; blood circulation; endothelial cell migration; JAK-STAT cascade; negative regulation of angiogenesis; negative regulation of endothelial cell proliferation; negative regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of transcription from RNA polymerase II promoter; negative regulation of viral protein levels in host cell; positive regulation of erythrocyte differentiation; positive regulation of mesenchymal cell proliferation; positive regulation of smooth muscle cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; regulation of apoptosis; response to cAMP; response to cytokine stimulus; response to peptide hormone stimulus; tumor necrosis factor-mediated signaling pathway Disease: Immunodeficiency 31a; Immunodeficiency 31b; Immunodeficiency 31c
Research Articles on STAT1	**1.** a novel mechanism of STAT1 gain-of-function triggered by a chronic mucocutaneous candidiasis pathogenic mutation.
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