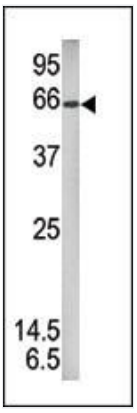
STAT1 Antibody – Rabbit Polyclonal

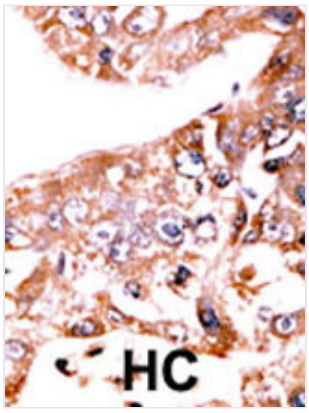
PRODUCT OVERVIEW

Product Name	STAT1, Polyclonal Antibody
Full Product Name	STAT1, Phosphorylated (Ser727) (Signal Transducer And Activator Of Transcription 1-alpha/beta, Transcription Factor ISGF-3 Components p91/p84) (APC)
Product Gene Name	anti-STAT1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human STAT1 when phosphorylated at Ser727.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	91 kDa
OMIM	209950
3D Structure	ModBase 3D Structure for P42224
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser727 of human STAT1 (KLH).
Conjugate	APC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-STAT1 antibody	Antibodies; Transcription Factors; STAT
Applications Tested/Suitable for anti-STAT1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-STAT1 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-STAT1 antibody	MBS6500892 is an antibody targeting STAT1. Also known as STAT1, Phosphorylated (Ser727) (Signal Transducer And Activator Of Transcription 1-alpha/beta, Transcription Factor ISGF-3 Components p91/p84) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-STAT1 antibody	1. Garcin, D., et al., J. Virol. 78(16):8799-8811 (2004). 2. Melen, K., et al., J. Med. Virol. 73(4):536-547 (2004). 3. Klampfer, L., et al., J. Biol. Chem. 279(29):30358-30368 (2004). 4. Marg, A., et al., J. Cell Biol. 165(6):823-833 (2004). 5. Chim, C.S., et al., Blood 103(12):4630-4635 (2004).

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.



Western Blot (WB) of anti-STAT1 antibody
Western blot analysis of anti-Phospho-STAT1 Pab in mouse brain tissue lysate (35ug/lane). Phospho-STAT1(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-STAT1 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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
UniProt Primary Accession #	P42224
UniProt Secondary Accession #	Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7
UniProt Related Accession #	P42224
GenBank Nucleotide #	NM_007315.3
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, 91kDa
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; transcription factor ISGF-3 components p91/p84; signal transducer and activator of transcription-1; signal transducer and activator of transcription 1, 91kD

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.** conserved motif in the linker domain of STAT1 transcription factor is required for both recognition and release from high-affinity DNA-binding sites
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