

Rabbit STAT1 Polyclonal Antibody | anti-STAT1 antibody

Phospho-STAT1 Antibody

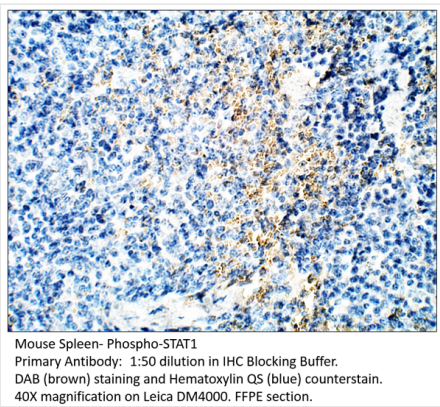
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA226385	Rabbit	Human, Mouse Predicted: Rat	Western Blot, Immunoprecipitation, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

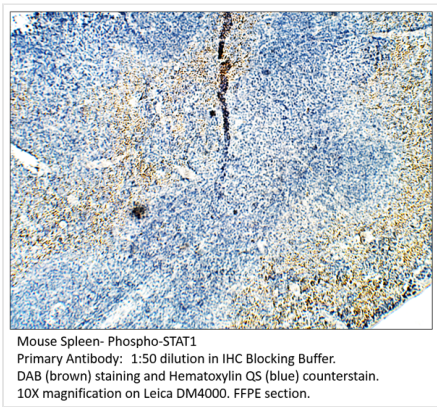
STAT1; Polyclonal Antibody; Phospho-STAT1 Antibody; Signal transducer and activator of transcription 1 91kD; CANDF7; IMD31A; IMD31B; IMD31C; ISGF 3; Signal transducer and activator of transcription 1-alpha/beta; STAT91; Transcription factor ISGF-3 components p91/p84; anti-STAT1 antibody

PRODUCT SPECIFICATIONS

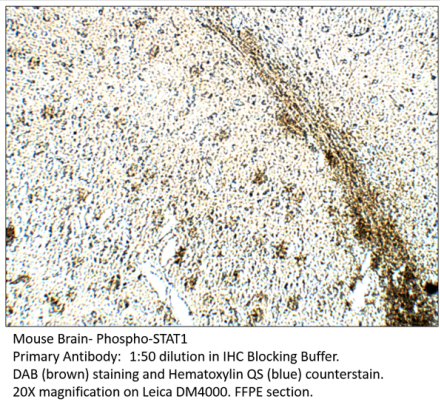
Host	Rabbit
Reactivity	Human, Mouse Predicted: Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Concentration	0.5 ug/ul in antibody stabilization buffer (varies by lot)
Sequence Length	750
Applicable Applications for anti-STAT1 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA
Immunogen	Synthetic peptide taken within amino acid region 700-750 on human STAT1 protein. Phosphorylated Serine 727 residue.
Conjugation	Unconjugated
Modification	Phosphorylated Serine 727.
Molecular Function	Activator
Subcellular Location	Cytoplasm; Nucleus
Preparation and Storage	Store at -20 degree C for long term storage.



IHC (Immunohistochemistry)



IHC (Immunohistochemistry)



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ADDITIONAL INFORMATION

Related Product Information for anti-STAT1 antibody	Overview: Signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and other growth factors. Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, signaling via protein kinases leads to activation of Jak kinases (TYK2 and JAK1) and to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of IFN-stimulated genes (ISG), which drive the cell in an antiviral state. In response to type II IFN (IFN-gamma), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN-gamma-activated factor (GAF), migrates into the nucleus and binds to the IFN gamma activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state. Becomes activated in response to KITLG/SCF and KIT signaling. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Structure: Isoform alpha homodimerizes upon IFN-gamma induced phosphorylation. Heterodimer with STAT2 upon IFN-alpha/beta induced phosphorylation. The heterodimer STAT1:STAT2 forms the interferon-stimulated gene factor 3 complex (ISGF3) with IRF9. Interacts (phosphorylated at Ser 727) with PIAS1 (dimethylated on arginine); the interaction results in release of STAT1 from its target gene. Interacts with IFNAR1; the interaction requires the phosphorylation of IFNAR1 at 'Tyr-466'. Interacts with IFNAR2, NMI, PTK2/FAK1 and SRC. Interacts with ERBB4 (phosphorylated). Interacts with Sendai virus C', C, Y1 and Y2 proteins, Nipah virus P, V and W proteins, and rabies virus phosphoprotein preventing activation of ISRE and GAS promoter. Interacts with HCV core protein; the interaction results in STAT1 degradation.
Product Categories/Family for anti-STAT1 antibody	Primary Antibodies Epigenetics Nuclear Signaling Pathways STATs Phospho-STAT1 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	6274552
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NCBI GeneID	6772
NCBI Accession #	NP_009330.1
NCBI GenBank Nucleotide #	NM_007315.3
UniProt Accession #	P42224; Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7
Molecular Weight	83,043 Da
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
NCBI Protein Information	signal transducer and activator of transcription 1-alpha/beta
UniProt Protein Name	Signal transducer and activator of transcription 1-alpha/beta
UniProt Gene Name	STAT1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/stat1-antibody-western-blot-immunoprecipitation-immunohistochemistry-elisa/226385>