

Mouse Stat1 Monoclonal Antibody | anti-Stat1 antibody

Stat1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71703	Mouse	Human, Rat, Mouse	Immunocytochemistry, Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

Stat1; Monoclonal Antibody; Stat1 Antibody; anti-Stat1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M249
Specificity	The antibody detects 84 and 91kDa* stat1 variants on SDS-PAGE immunoblots of human Jurkat and A431 cells.
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal antibody purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-Stat1 antibody	ICC (Immunocytochemistry), IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Clone (M249) was generated from a recombinant protein from human Stat1. This sequence has high homology to the conserved region in rat and mouse stat1 a and b.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of Stat1 in human A431 cells. The cells were labeled with mouse monoclonal Stat1 (SM2491) antibody (Right), then the antibody was detected using appropriate secondary antibody conjugated to DyLight 594. Corresponding phase image is shown to the left.



WB (Western Blot)

Western blot analysis of human A431 cells untreated (lanes 1, 3, 5, 7 & 9) or treated with EGF (100nM) for 60 min (lanes 2, 4, 6, 8 & 10). The blots were probed with anti-Stat1 (lanes 1 & 2), anti-Stat1 (Tyr-701) (lanes 3 & 4), anti-Stat3 (lanes 5 & 6), anti-Stat5 (lanes 7 & 8), and anti-Stat5 (Tyr-694) (lanes 9 & 10).

ADDITIONAL INFORMATION

Related Product Information for anti-Stat1 antibody

The stat proteins function both as cytoplasmic signal transducers and as activators of transcription. Stat1 is expressed as two variants of 84 and 91kDa. Stat1 proteins contain SH2 and SH3 domains, and are components of the interferon-stimulated gene factor 3 (ISGF3) complex. This complex is the primary transcription activator induced by the binding of interferon to its receptors. In response to activation by various cytokines and growth factors, stat1 subunits become phosphorylated at tyrosine 701. This leads to translocation of stat1 to the nucleus, resulting in formation of an active ISGF3 complex. Active ISGF3 modulates the transcription of the interferon-stimulated genes. Thus, phosphorylation of Tyr-701 is critical for gene expression mediated by various cytokines and growth factors.

References	Darnell, J.E. (1997) Science 277:1630. Gouilleux, F. et al. (1994) EMBO J. 13:4361. Fu, X.Y. et al. (1993) Cell 74:1135.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	6274552
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	87,335 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, 91kDa
NCBI Official Symbol	STAT1
NCBI Official Synonym Symbols	CANDF7; ISGF-3; STAT91
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
UniProt Protein Name	Signal transducer and activator of transcription 1-alpha/beta
UniProt Gene Name	STAT1
UniProt Entry Name	STAT1_HUMAN

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.