

Product datasheet for **TA305937**

STAT1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ICC, IF, IHC, IP, WB
Recommended Dilution:	WB: 0.5-1 µg/mL; IF: 20 µg/mL; IHC: 2.5 µg/mL; ICC: 10 µg/mL . Antibody validated: Western Blot in human, mouse and rat samples; Immunofluorescence, Immunohistochemistry and Immunocytochemistry in human samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	STAT1 alpha antibody was raised against a peptide corresponding to 38 amino acids near the carboxy terminus of human STAT1 alpha. The sequences differ from the murine corresponding sequences by four amino acids. The immunogen is located within the last 50 amino acids of STAT1 alpha.
Specificity:	At least two isoforms of STAT1 are known to exist; this antibody will only recognize the larger isoform.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	STAT1 alpha Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	signal transducer and activator of transcription 1
Database Link:	NP_009330 Entrez Gene 20846 MouseEntrez Gene 25124 RatEntrez Gene 6772 Human P42224



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Background:	STATs (signal transducers and activators of transcription) are a family of cytoplasmic latent transcription factors that are activated to regulate gene expression in response to a large number of extracellular signaling polypeptides including cytokines, interferons, and growth factors. After phosphorylation by JAK tyrosine kinases, STATs enter the nucleus to regulate transcription of many different genes. Among the seven STATs (Stat1, Stat2, Stat3, Stat4, Stat5a, Stat5b, and Stat6), Stat1, Stat3, Stat5alpha, and Stat5beta have a wide activation profile. STAT1 is activated by many different ligands including IFN family (IFN-alpha, IFN-beta, IFN-gamma and IL-10), gp130 family (IL-6, IL-11, LIF, CNTF, and G-CSF), and receptor tyrosine kinases (EGF, PDGF, and CSF-1). STAT1 has two forms, the 91 kDa STAT1alpha and the 84 kDa STAT1beta which are encoded by the same gene with splicing variant.
Synonyms:	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Toll-like receptor signaling pathway