

## Product datasheet for **TA385330**

### STAT1 Rabbit Monoclonal Antibody [Clone ID: R03-2K5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R03-2K5
Applications:	IP, WB
Recommended Dilution:	WB: 1/1000 IP: 1/20
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human STAT1 alpha
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 87 kDa; Observed MW: 87 kDa
Gene Name:	signal transducer and activator of transcription 1
Database Link:	<a href="#">Entrez Gene 6772 Human P42224</a>



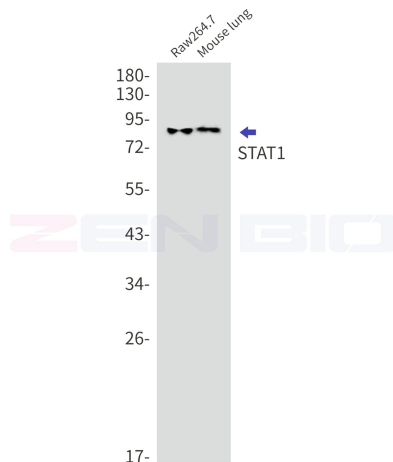
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**Background:**

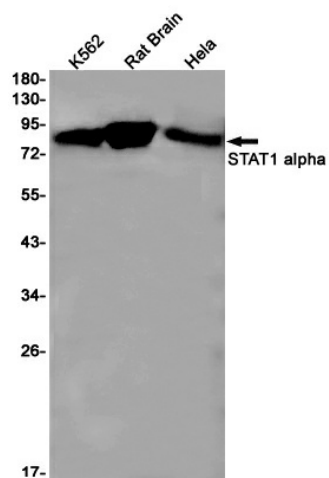
Swiss-Prot Acc.P42224.Signal transducer and transcription activator that mediates cellular responses to interferons (IFNs), cytokine KITLG/SCF and other cytokines and other growth factors. Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, signaling via protein kinases leads 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 (PubMed:28753426). 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 (PubMed:26479788). 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.

**Synonyms:**

DKFZp686B04100; ISGF-3; OTTHUMP00000205845; STAT91

**Product images:**

Western blot detection of STAT1 in Raw264.7, Mouse lung lysates using STAT1 antibody. Predicted band size: 87kDa. Observed band size: 87kDa.



Western blot detection of STAT1 alpha in K562, Rat Brain, HeLa cell lysates using STAT1 alpha Rabbit mAb (1:1000 diluted). Predicted band size: 87 kDa. Observed band size: 87 kDa.