

## Product datasheet for **AP31321PU-N**

### STAT1 pSer727 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/10000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/100. <b>Western Blot:</b> 1/500 - 1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from human STAT1 around the phosphorylation site of Ser727. <b>Epitope:</b> pSer727.
Specificity:	This antibody detects endogenous levels of STAT1 only when phosphorylated at Serine727.
Formulation:	PBS (without Mg <sup>2+</sup> , Ca <sup>2+</sup> ), pH 7.4 containing 150 mM Sodium Chloride, 0.02% Sodium Azide and 50% Glycerol. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	signal transducer and activator of transcription 1
Database Link:	<a href="#">Entrez Gene 20846 Mouse</a> <a href="#">Entrez Gene 25124 Rat</a> <a href="#">Entrez Gene 6772 Human P42224</a>



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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, Stat5a, and Stat5b have a wide activation profile. STAT1 is activated by many different ligands including IFN family (IFN-a, IFN-b, IFN-g 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 kD STAT1a and the 84 kD STAT1b which are encoded by the same gene with splicing variant.

**Synonyms:**

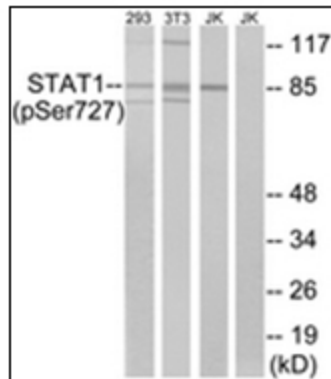
DKFZp686B04100; ISGF-3; OTTHUMP00000205845; STAT91

**Protein Families:**

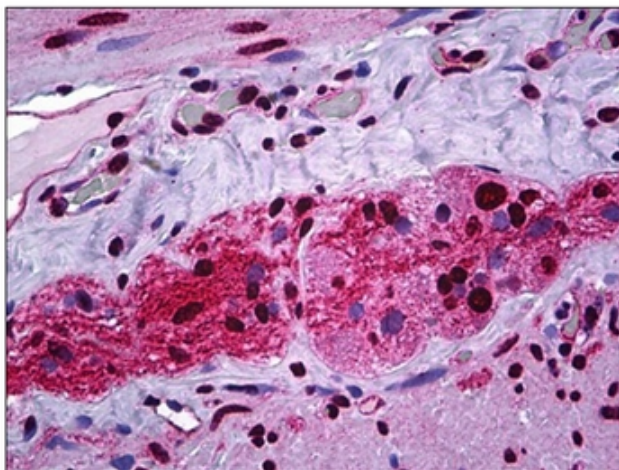
Druggable Genome, Transcription Factors

**Protein Pathways:**

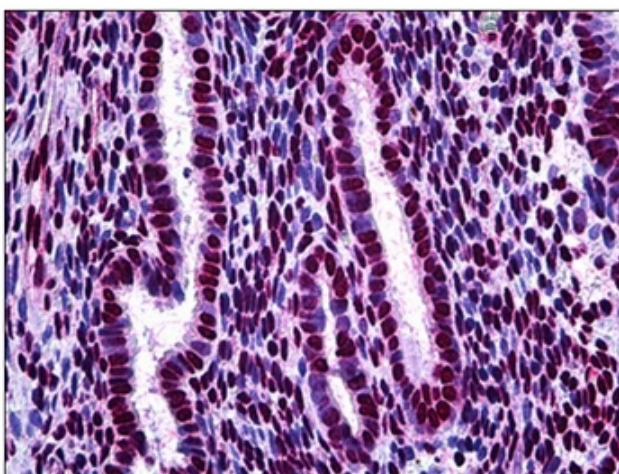
Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Toll-like receptor signaling pathway

**Product images:**

Western blot analysis of extracts from 293 cells, 3T3 cells treated with UV (15mins) and Jurkat cells treated with ETO (25uM, 24hours), using STAT1 (Phospho-Ser727) Antibody. The lane on the right is treated with the synthesized peptide.



Human Intestine, Ganglion Cells: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Uterus: Formalin-Fixed, Paraffin-Embedded (FFPE)