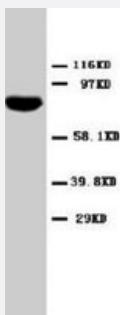


STAT1 polyclonal antibody

Catalog # PAB8012 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of human colon cancer lysate. Using STAT1 polyclonal antibody (Cat # PAB8012) .

Specification

Product Description	Rabbit polyclonal antibody raised against partial synthetic peptide of human STAT1.
Immunogen	A synthetic peptide corresponding to amino acids 364-378 of human STAT1.
Sequence	FDKDVNERNTVKGFR
Host	Rabbit
Reactivity	Human, Mouse, Rabbit, Rat
Form	Lyophilized
Purification	Immunogen affinity purification
Isotype	IgG
Recommend Usage	Western Blot (0.1-0.5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.2 mg Na ₂ HPO ₄ , 0.9 mg NaCl (0.05 mg Thimerosal, 0.05 mg sodium azide, 5 mg BSA).

Storage Instruction

Store at -20°C.

After reconstitution with 0.2 mL of distilled water and concentration will be 500 ug/mL, store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide and Thimerosol: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of human colon cancer lysate. Using STAT1 polyclonal antibody (Cat # PAB8012) .

Gene Info — STAT1

Entrez GeneID[6772](#)**Protein Accession#**[P42224](#)**Gene Name**

STAT1

Gene Alias

DKFZp686B04100, ISGF-3, STAT91

Gene Description

signal transducer and activator of transcription 1, 91kDa

Omim ID[209950 600555](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

Other Designations

OTTHUMP00000165047|signal transducer and activator of transcription 1|signal transducer and activator of transcription-1|transcription factor ISGF-3 components p91/p84

Publication Reference

- [Novel STAT1 alleles in otherwise healthy patients with mycobacterial disease.](#)

Chapgier A, Boisson-Dupuis S, Jouanguy E, Vogt G, Feinberg J, Prochnicka-Chalufour A, Casrouge A, Yang K, Soudais C, Fieschi C, Santos OF, Bustamante J, Picard C, de Beaucoudrey L, Emile JF, Arkwright PD, Schreiber RD, Rolinck-Werninghaus C, Rosen-Wolff A, Magdorf K, Roesler J, Casanova JL.

PLoS Genetics 2006 Aug; 2(8):e131.

Application: WB, Human, Human B cells, fibrosarcoma cell line 2C4

- [Stat1 controls postnatal bone formation by regulating fibroblast growth factor signaling in osteoblasts.](#)

Xiao L, Naganawa T, Obugunde E, Gronowicz G, Ornitz DM, Coffin JD, Hurley MM.

The Journal of Biological Chemistry 2004 Jun; 279(26):27743.

Application: WB, Mouse, Marrow stromal cells

- [STATs: signal transducers and activators of transcription.](#)

Ihle JN.

Cell 1996 Feb; 84(3):331.

Application: IP, WB-Ce, WB-Tr, Human, Mammalian cells

Pathway

- [Chemokine signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Bronchiolitis](#)
- [Campylobacter Infections](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)

- [Neutropenia](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)
- [Papillomavirus Infections](#)
- [Proteinuria](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Salmonella Infections](#)
- [Thrombocytopenia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Viremia](#)
- [Werner syndrome](#)