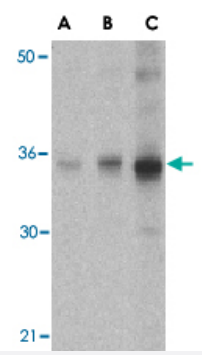
SOCS1 polyclonal antibody

Catalog # PAB13192 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of SOCS1 in human spleen tissue lysate with SOCS1 polyclonal antibody (Cat # PAB13192) at (A) 1, (B) 2 and (C) 4 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SOCS1.
Immunogen	A synthetic peptide corresponding to N-terminus 17 amino acids of human SOCS1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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Gene Info — SOCS1

Entrez GeneID	8651
Protein Accession#	CAB92528
Gene Name	SOCS1
Gene Alias	CIS1, CISH1, JAB, SOCS-1, SSI-1, SSI1, TIP3
Gene Description	suppressor of cytokine signaling 1
Omim ID	603597
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signaling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by a subset of cytokines, including IL2, IL3 erythropoietin (EPO), CSF2/GM-CSF, and interferon (IFN)-gamma. The protein encoded by this gene functions downstream of cytokine receptors, and takes part in a negative feedback loop to attenuate cytokine signaling. Knockout studies in mice suggested the role of this gene as a modulator of IFN-gamma action, which is required for normal postnatal growth and survival. [provided by RefSeq
Other Designations	JAK binding protein|STAT induced SH3 protein 1|Tec-interacting protein 3|cytokine-inducible SH2 protein 1

Publication Reference

- Suppressor of cytokine signaling 1 negatively regulates Toll-like receptor signaling by mediating Mal degradation.

  Mansell A, Smith R, Doyle SL, Gray P, Fenner JE, Crack PJ, Nicholson SE, Hilton DJ, O'Neill LA, Hertzog PJ.

  Nature Immunology 2006 Feb; 7(2):148.

- The SOCS box: a tale of destruction and degradation.

  Kile BT, Schulman BA, Alexander WS, Nicola NA, Martin HM, Hilton DJ.

  Trends in Biochemical Sciences 2002 May; 27(5):235.

  Application: IHC, WB-Tr, Human, Mammalian cells

- Cytokine signaling in 2002: new surprises in the Jak/Stat pathway.

  O'Shea JJ, Gadina M, Schreiber RD.

  Cell 2002 Apr; 109 Suppl:S121.

  Application: WB, Human, Mouse, Mammalian cells

Pathway

- Insulin signaling pathway
- Jak-STAT signaling pathway
- Type II diabetes mellitus
- Ubiquitin mediated proteolysis

Disease

- Alzheimer disease
- Arthritis
- Asthma
- Birth Weight
- Cardiovascular Diseases
- Celiac Disease
- Diabetes Complications
- Diabetes Mellitus
- Disease Susceptibility
- Edema

- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hepatitis C
- Insulin Resistance
- Leukemia
- Lupus Erythematosus
- Meningeal Neoplasms
- Meningioma
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis