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SOCS1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12399

Specification

SOCS1 Antibody (N-Terminus) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	O15524
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**24kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A**

SOCS1 Antibody (N-Terminus) - Additional Information

Gene ID 8651

Other Names
Suppressor of cytokine signaling 1, SOCS-1, JAK-binding protein, JAB, STAT-induced STAT inhibitor 1, SSI-1, Tec-interacting protein 3, TIP-3, SOCS1, SSI1, TIP3

Target/Specificity
17 amino acid peptide from near the amino terminus of human SOCS1

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
SOCS1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SOCS1 Antibody (N-Terminus) - Protein Information

Name SOCS1

Synonyms SSI1, TIP3 {ECO:0000303|PubMed:9341160}

Function
Essential negative regulator of type I and type II interferon (IFN) signaling, as well as that of other cytokines, including IL2, IL4, IL6 and leukemia inhibitory factor (LIF) (PubMed:32499645, PubMed:33087723). Downregulates cytokine signaling by inhibiting the JAK/STAT signaling pathway. Acts by binding to JAK proteins and to IFNGR1 and inhibiting their kinase activity. In vitro, suppresses Tec protein-tyrosine activity (PubMed:<a href="http://www.uniprot.org/citations/9341160"

target="_blank">9341160). Regulates IFN-gamma (IFNG)- mediated sensory neuron survival (By similarity). Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:11278610, PubMed:11313480).

Cellular Location
Nucleus. Cytoplasmic vesicle. Note=Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3

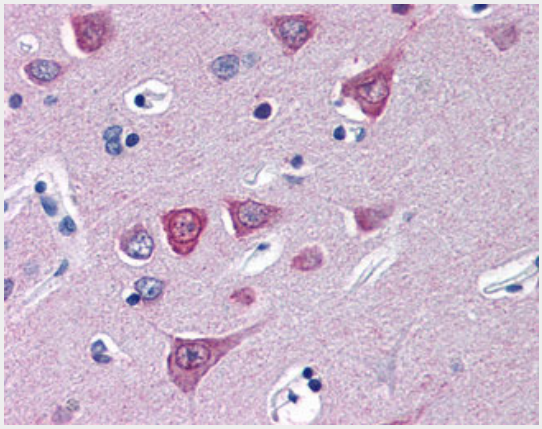
Tissue Location
Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes

SOCS1 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOCS1 Antibody (N-Terminus) - Images



Anti-SOCS1 antibody IHC of human brain, cortex.

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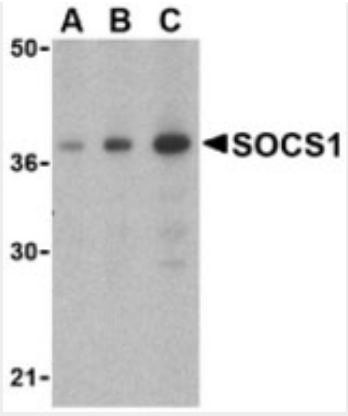

Western blot of SOCS1 in Human spleen cell lysate with SOCS1 antibody at (A) 1, (B) 2 and (C) 4...

SOCS1 Antibody (N-Terminus) - Background

SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS1 is involved in negative regulation of cytokines that signal through the JAK/STAT3 pathway. Through binding to JAKs, inhibits their kinase activity. In vitro, also suppresses Tec protein- tyrosine activity. Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia inhibitory factor (LIF). Regulates interferon-gamma mediated sensory neuron survival (By similarity). Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize JAK2. SOCS1 appears to be a negative regulator in IGF1R signaling pathway.

SOCS1 Antibody (N-Terminus) - References

Minamoto S.,et al.Biochem. Biophys. Res. Commun. 237:79-83(1997).
Ohya K.,et al.J. Biol. Chem. 272:27178-27182(1997).
Starr R.,et al.Nature 387:917-921(1997).
Yandava C.N.,et al.Genomics 61:108-111(1999).
Schlueter G.,et al.Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.