

SOCS1 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12398**Specification**

SOCS1 Antibody (C-Terminus) - Product Information

Application	IHC, WB
Primary Accession	O15524
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24kDa KDa

SOCS1 Antibody (C-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

15 amino acid peptide from near the carboxy 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 (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SOCS1 Antibody (C-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: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

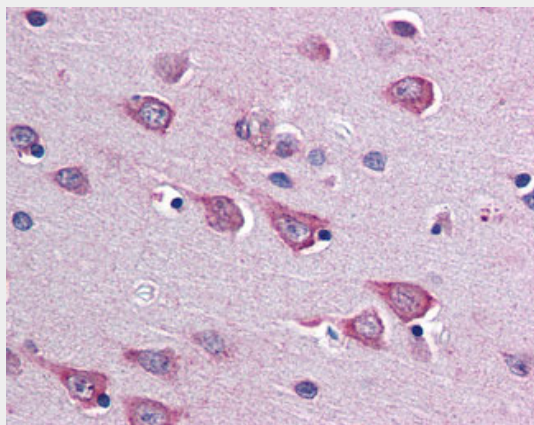
Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes

SOCS1 Antibody (C-Terminus) - Protocols

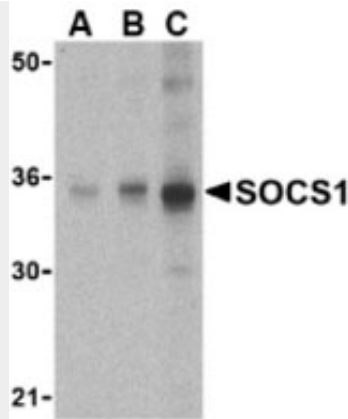
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SOCS1 Antibody (C-Terminus) - Images



Anti-SOCS1 antibody IHC of human brain, cortex.



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

SOCS1 Antibody (C-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 (C-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.