

SOCS1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10669**Specification**

SOCS1 Antibody - Product Information

Application	WB
Primary Accession	O9QX78
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	23826

SOCS1 Antibody - Additional Information

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Other applications have not been tested. The antibody detects ~30 kDa SOCS1 on SDS-PAGE immunoblots. Blocking peptide is available separately.
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Other Names

CIS1 , CISH1 , JAB , JAK binding protein , SOCS-1 , SOCS1 , SSI-1 , SSI1 , TIP3

Target/Specificity

SOCS1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

SOCS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SOCS1 Antibody - Protein Information

Name Socsl

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). 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. Regulates IFN-gamma (IFNG)-mediated sensory neuron survival. 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.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:O15524}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:O15524}. Note=Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3 {ECO:0000250|UniProtKB:O15524}

SOCS1 Antibody - 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 - Images

SOCS1 Antibody - Background

The Suppressor of cytokine signaling (SOCS) and cytokine-inducible SH2 proteins are a family of intracellular proteins that regulate responses to cytokines. SOCS1 suppresses dendritic cell and T cell hyperactivation in response to cytokine signaling by inhibiting the JAK tyrosine kinase. JAK tyrosine kinase activity is important for type I and II cytokine receptors to initiate signaling, and its activity is inhibited by direct binding of SOCS1 to the catalytic domain of the kinase. SOCS1 also has E3 ubiquitin protein ligase activity that results in the polyubiquitination of its target proteins and subsequent degradation by the proteasome.