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SOCS1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8790a

Specification

SOCS1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O15524

SOCS1 Antibody (N-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP8790a was selected from the N-term region of human SOCS1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SOCS1 Antibody (N-term) Blocking Peptide - Protein Information

Name SOCS1

SOCS1 Antibody (N-term) Blocking Peptide - Background

SOCS1 is 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.

SOCS1 Antibody (N-term) Blocking Peptide - References

Starr,R.,et.al., Nature 387 (6636), 917-921 (1997)Minamoto,S., et.al., Biochem. Biophys. Res. Commun. 237 (1), 79-83 (1997)

Synonyms SSI1, TIP3

Function
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/STAT pathway. Through binding to JAKs and IFNGR1, 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.

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-term) Blocking Peptide - Protocols

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

- Blocking Peptides