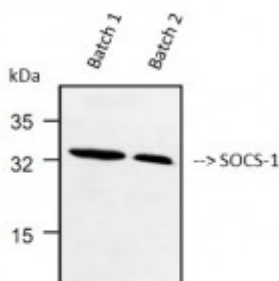


Anti-SOCS-1 antibody



Western Blot (WB) analysis of KB cell lysate using SOCS-1 antibody (STJ95727) from 2 batches.



Description

SOCS-1 is a protein encoded by the SOCS1 gene which is approximately 23,5 kDa. SOCS-1 is localised to the nucleus and cytoplasm. It is involved in activated TLR4 signalling, the prolactin signalling pathway, IL-2 pathway and class I MHC mediated antigen processing and presentation. This protein is a member of the suppressor of cytokine signalling family. It forms part of a negative feedback system that regulates cytokines that signal through the JAK/STAT3 pathway. SOCS-1 is expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes. Mutations in the SOCS1 gene may result in ileum cancer and infectious anterior uveitis. STJ95727 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of SOCS-1 protein.

Model	STJ95727
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, FC, WB
Immunogen	Synthesized peptide derived from human SOCS-1.
Immunogen Region	Internal
Gene ID	8651
Gene Symbol	SOCS1
Dilution range	WB 1:500-1:2000ICC 1:200-1:1000ELISA 1:40000
Specificity	SOCS-1 Polyclonal Antibody detects endogenous levels of SOCS-1 protein.
Tissue Specificity	Expressed in all tissues with high expression in spleen, small intestine and

peripheral blood leukocytes.

Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Suppressor of cytokine signaling 1 SOCS-1 JAK-binding protein JAB STAT-induced STAT inhibitor 1 SSI-1 Tec-interacting protein 3 TIP-3
Molecular Weight	36 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:19383OMIM:603597
Alternative 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
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/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 . 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.
Sequence and Domain Family	The ESS and SH2 domains are required for JAK phosphotyrosine binding. Further interaction with the KIR domain is necessary for signal and kinase inhibition.; The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes. The Elongin BC complex binding domain is also known as BC-box with the consensus [APST]-L-x(3)-C-x(3)-[AILV] and is part of the SOCS box .
Cellular Localization	Nucleus Cytoplasmic vesicle. Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3.