

SOCS1 Antibody

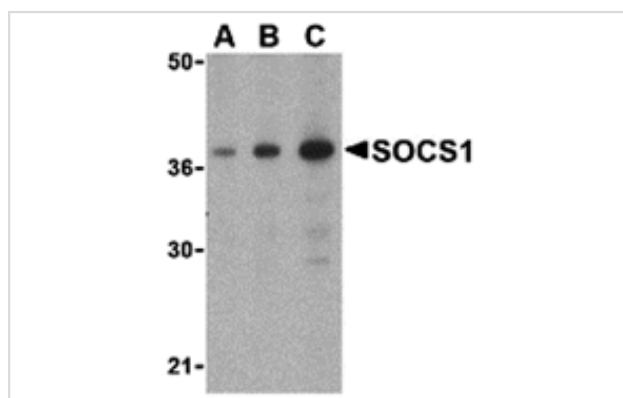
Catalog No: #24399

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Description

Product Name	SOCS1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 15 amino acid peptide from near the carboxy terminus of human SOCS1.
Target Name	SOCS1
Other Names	Suppressor of cytokine signaling 1, JAK-binding protein, JAB
Accession No.	Swiss-Prot:O15524Gene ID:8651
Uniprot	O15524
GeneID	8651;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



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

Background

The Suppressor of cytokine signaling (SOCS) and cytokine-inducible SH2 proteins are a family of intracellular proteins which regulate the immune cell responses to cytokines. SOCS1 acts to suppress dendritic cell (DC) as well as T cell hyperactivation following cytokine signaling by inhibiting JAK tyrosine kinase, a kinase necessary for type I and II cytokine receptors to initiate signaling, by directly binding to the catalytic domain of the kinase. SOCS1 also possesses E3 ubiquitin protein ligase activity that results in the polyubiquitination of its target proteins and subsequent degradation by the proteasome. It is through this method that SOCS1 negatively regulates signaling by Toll-like receptors TLR2 and TLR4 by mediating the degradation of the TLR signaling adaptor protein TIRAP.

Note: This product is for in vitro research use only