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Datasheet for 600-401-H18

SOCS1 Antibody

Overview

Description:	Anti-SOCS1 (RABBIT) Antibody - 600-401-H18
Item No.:	600-401-H18
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SOCS1 antibody detects human SOCS1. 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 proteosome. 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. Anti-SOCS1 antibodies are ideal for investigators involved in cytokines and growth factors research.
Synonyms:	SSI1, TIP3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SOCS1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	SOCS1 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the c-terminus of human SOCS1.
Purity/Specificity:	Anti-SOCS1 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with SOCS1 with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with SOCS1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O15524 • GeneID - 8651

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-SOCS1 Antibody is tested for use in ELISA and WB. Expect a band approximately ~23.5 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-2 ug/mL

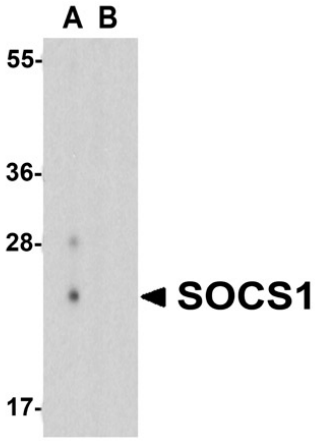
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot analysis of SOCS1.
Load: human spleen tissue lysate.
Primary Antibody: anti-SOCS1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

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