

Datasheet for ABIN3044331  
**anti-SOCS1 antibody (C-Term)**



[Go to Product page](#)

2 Images

2 Publications

## Overview

Quantity:	100 µg
Target:	SOCS1
Binding Specificity:	AA 197-211, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOCS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Suppressor of cytokine signaling 1(SOCS1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human SOCS1(197-211aa NPVLRDYLSSFPFQI), identical to the related mouse and rat sequences.
Sequence:	NPVLRDYLSS FPFQI
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Suppressor of cytokine signaling 1(SOCS1) detection. Tested

## Product Details

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with WB, IHC-P in Human,Mouse,Rat.

Gene Name: suppressor of cytokine signaling 1

Protein Name: Suppressor of cytokine signaling 1(SOCS-1)

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Purification: Immunogen affinity purified.

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## Target Details

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Target: SOCS1

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Alternative Name: SOCS1 ([SOCS1 Products](#))

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Background: Suppressor of cytokine signaling 1(SOCS1), also known as Jak-binding protein(JAB), is a negative regulator to a subset of protein-tyrosine kinases. This 211-amino acid protein has a molecular mass of about 23.5 kD. The TEC-binding region of SOCS1 resides in the N terminus. SOCS1 associates with Tec and suppresses its kinase activity. The SOCS1 gene is intronless and is mapped to on chromosome 16p13.13. SOCS1 regulates the JAK/STAT signal-transduction pathway. Moreover, it contributes to protection against hepatic injury and fibrosis, and may also protect against hepatocarcinogenesis.

Synonyms: CISH 1 antibody|CISH1 antibody|Cytokine Inducible SH2 Protein 1 antibody|JAB antibody|JAK Binding Protein antibody|JAK-binding protein antibody|Janus kinase binding protein antibody|SOCS 1 antibody|SOCS-1 antibody|Socs1 antibody|SOCS1\_HUMAN antibody|SSI 1 antibody|SSI-1 antibody|SSI1 antibody|STAT Induced STAT Inhibitor 1 antibody|STAT-induced STAT inhibitor 1 antibody|Suppressor of cytokine signaling 1 antibody|Supressor of cytokine Signalling 1 antibody|TEC Interacting Protein 3 antibody|Tec-interacting protein 3 antibody|TIP 3 antibody|TIP-3 antibody|TIP3 antibody

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UniProt: [O15524](#)

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Pathways: [JAK-STAT Signaling](#), [Interferon-gamma Pathway](#), [TLR Signaling](#), [Response to Growth Hormone Stimulus](#)

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## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat,  
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be

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## Application Details

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fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

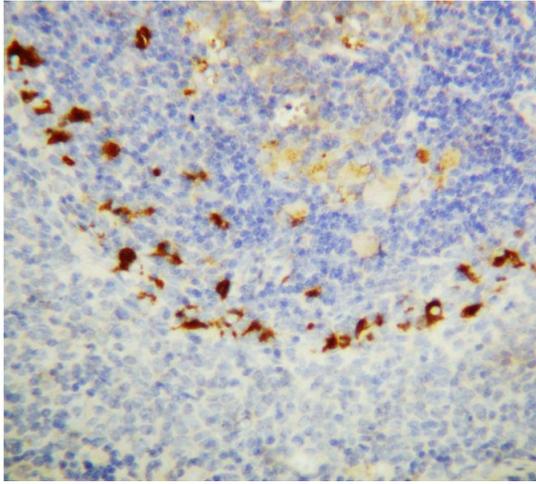
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

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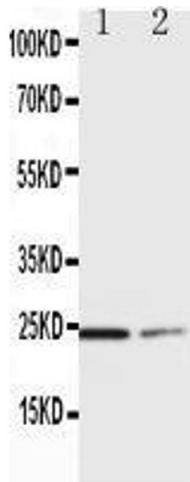
Product cited in: Yang, Tian, Zhang, Xu, Yang, Yu, Li, Li, Li, Li: "Role of the JAK2/STAT3 signaling pathway in the pathogenesis of type 2 diabetes mellitus with macrovascular complications." in: **Oncotarget**, Vol. 8, Issue 57, pp. 96958-96969, (2017) ([PubMed](#)).

Wan, Ma, Mei, Shan: "The effects of HIF-1alpha on gene expression profiles of NCI-H446 human small cell lung cancer cells." in: **Journal of experimental & clinical cancer research : CR**, Vol. 28, pp. 150, (2010) ([PubMed](#)).



### Immunohistochemistry

**Image 1.** Anti-SOCS1 antibody, IHC(P) IHC(P): Rat Spleen Tissue



### Western Blotting

**Image 2.** Anti-SOCS1 antibody, Western blotting Lane 1: Cell Lysate Lane 2: COLO320 Cell Lysate