

Datasheet for ABIN3044272

**anti-SOCS3 antibody (Middle Region)**

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## Overview

Quantity:	100 µg
Target:	SOCS3
Binding Specificity:	AA 71-85, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOCS3 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 3(SOCS3) detection. Tested with WB, IHC-P in Human,Mouse.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human SOCS3(71-85aa RDSSDQRHFFTLVK), identical to the related mouse sequence, different from the related rat sequence by one amino acid.
Sequence:	RDSSDQRHFF TLVK
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>

## Product Details

Characteristics:	Rabbit IgG polyclonal antibody for Suppressor of cytokine signaling 3(SOCS3) detection. Tested with WB, IHC-P in Human,Mouse. Gene Name: suppressor of cytokine signaling 3 Protein Name: Suppressor of cytokine signaling 3(SOCS-3)
Purification:	Immunogen affinity purified.

## Target Details

Target:	SOCS3
Alternative Name:	SOCS3 ( <a href="#">SOCS3 Products</a> )
Background:	<p>SOCS3(Suppressor of cytokine signaling 3) is a protein that in humans is encoded by the SOCS3 gene. SOCS3 is transiently expressed by multiple cell lineages within the immune system and functions predominantly as a negative regulator of cytokines that activate the JAK-STAT3 pathway. This gene encodes 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. The expression of this gene is induced by various cytokines, including IL6, IL10, and interferon(IFN)-gamma. The protein encoded by this gene can bind to JAK2 kinase, and inhibit the activity of JAK2 kinase. For signaling of IL-6, Epo, GCSF and Leptin, binding of SOCS3 to the respective cytokine receptor has been found to be crucial for the inhibitory function of SOCS3. Studies of the mouse counterpart of this gene suggested the roles of this gene in the negative regulation of fetal liver hematopoiesis, and placental development.</p> <p>Synonyms: ATOD4 antibody CIS 3 antibody CIS-3 antibody CIS3 antibody Cish3 antibody Cytokine induced SH2 protein 3 antibody Cytokine-inducible SH2 protein 3 antibody E2a Pbx1 target gene in fibroblasts 10 antibody EF 10 antibody MGC71791 antibody SOCS 3 antibody SOCS-3 antibody Socs3 antibody SOCS3_HUMAN antibody SSI 3 antibody SSI-3 antibody SSI3 antibody STAT induced STAT inhibitor 3 antibody STAT-induced STAT inhibitor 3 antibody Suppressor of cytokine signaling 3 antibody</p>
UniProt:	<a href="#">O14543</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Hepatitis C</a>

## Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Predicted Species: Mouse
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## Application Details

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, 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 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

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.

Expiry Date: 12 months

## Publications

Product cited in: Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 1975-1982, (2017) ([PubMed](#)).

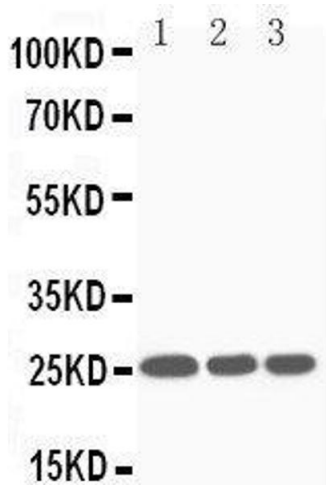
Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: **SpringerPlus**, Vol. 5, pp. 215, (2016) ([PubMed](#)).

Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: **Cardiovascular diabetology**, Vol. 12, pp. 37, (2013) ([PubMed](#)).

Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: **Journal of medicinal food**, Vol. 16, Issue 7, pp. 577-86, (2013) ([PubMed](#)).

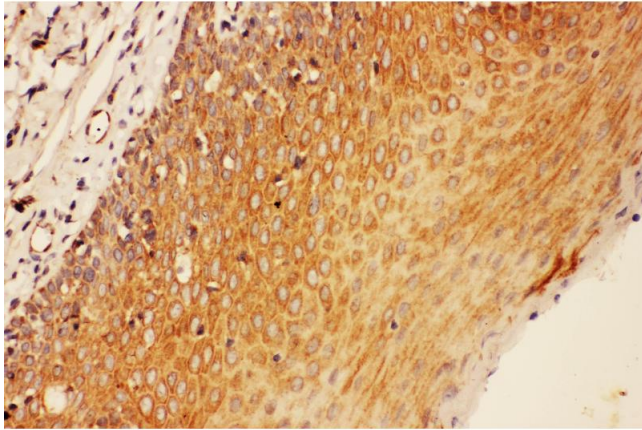
Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: **Brain research**, Vol. 1321, pp. 143-51, (2010) ([PubMed](#)).

Images



**Western Blotting**

**Image 1.** Anti-SOCS3 antibody, Western blotting Lane 1: JURKAT Cell Lysate Lane 2: CEM Cell Lysate Lane 3: RAJI Cell Lysate



#### Immunohistochemistry

**Image 2.** Anti-SOCS3 antibody, IHC(P) IHC(P): Human Tonsil Tissue