

## Anti-SOCS3 Antibody Picoband® Biotin Conjugated

Catalog Number: PA1707-Biotin

### About SOCS3

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.

### Overview

Product Name	Anti-SOCS3 Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Mouse
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O14543

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SOCS3, identical to the related mouse sequence, different from the related rat sequence by one amino acid.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental

requirements.

## 2 Publications Citing This Product

1. PubMed ID: 25695729, Wan J, Che Y, Kang N, Wu W. Mol Med Rep. 2015 Jul;12(1):83-92. Doi: 10.3892/Mmr.2015.3368. Epub 2015 Feb 17. Socs3 Blocks Hif-1?? Expression To Inhibit Proliferation And Angiogenesis Of Human Small Cell Lung Cancer By Downregulating Activation Of ...

2. PubMed ID: 29228585, Yang M, Tian M, Zhang X, Xu J, Yang B, Yu J, Li F, Li Y, Li S, Li X. Oncotarget. 2017 Jun 16;8(57):96958-96969. doi: 10.18632/oncotarget.18555. eCollection 2017 Nov 14. Role of the JAK2/STAT3 signaling pathway in the pathogenesis of type 2 diabete...

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