

**Anti-SOCS2 Antibody**  
**Catalog # ABO10709****Specification**

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**Anti-SOCS2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O14508</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Suppressor of cytokine signaling 2(SOCS2) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SOCS2 Antibody - Additional Information**

**Gene ID** 8835

**Other Names**

Suppressor of cytokine signaling 2, SOCS-2, Cytokine-inducible SH2 protein 2, CIS-2, STAT-induced STAT inhibitor 2, SSI-2, SOCS2, CIS2, SSI2, STATI2

**Calculated MW**

22172 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Tissue Specificity**

High expression in heart, placenta, lung, kidney and prostate.

**Protein Name**

Suppressor of cytokine signaling 2(SOCS-2)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human SOCS2(181-198aa LPLPTRLKDYLEEYKFQV), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**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.**

#### **Sequence Similarities**

Contains 1 SH2 domain.

### **Anti-SOCS2 Antibody - Protein Information**

**Name** SOCS2

**Synonyms** CIS2, SSI2, STATI2

#### **Function**

SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS2 appears to be a negative regulator in the growth hormone/IGF1 signaling pathway. Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

#### **Tissue Location**

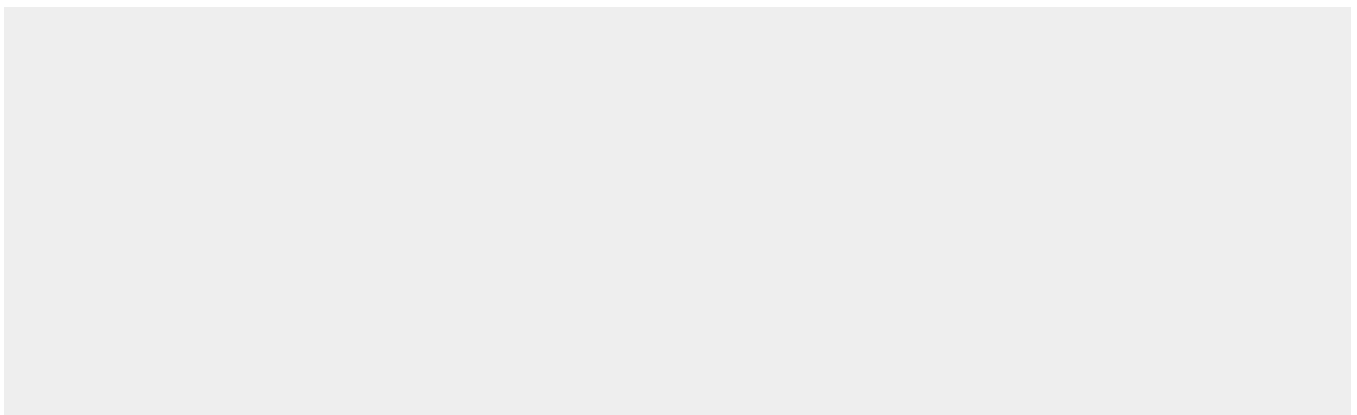
High expression in heart, placenta, lung, kidney and prostate. Predominantly expressed in pulmonary epithelia cells, specifically type II pneumocytes.

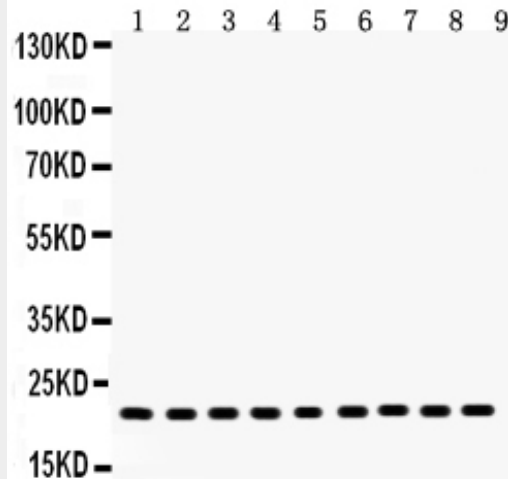
### **Anti-SOCS2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-SOCS2 Antibody - Images**





Anti-SOCS2 antibody, ABO10709, Western blotting All lanes: Anti SOCS2 (ABO10709) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Rat Spleen Tissue Lysate at 50ug  
Lane 3: MCF-7 Whole Cell Lysate at 40ug  
Lane 4: HELA Whole Cell Lysate at 40ug  
Lane 5: SMMC Whole Cell Lysate at 40ug  
Lane 6: HT1080 Tissue Lysate at 50ug  
Lane 7: Mouse Cardiac Muscle Tissue Lysate at 50ug  
Lane 8: Mouse Liver Tissue Lysate at 50ug  
Lane 9: Mouse Spleen Tissue Lysate at 50ug  
Predicted bind size: 22KD  
Observed bind size: 22KD

#### **Anti-SOCS2 Antibody - Background**

Suppressor of cytokine signaling 2 is a protein that in humans is encoded by the SOCS2 gene. This gene encodes a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signalling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by a subset of cytokines, including erythropoietin, GM-CSF, IL10 and interferon-gamma (IFN-gamma). The protein encoded by this gene is found to interact with the cytoplasmic domain of insulin-like growth factor 1 receptor (IGF1R), and thus is thought to be involved in the regulation of IGF1R mediated cell signaling. Knockout studies in mice also suggested a regulatory role of this gene in IGF-1 related growth control. By cytogenetic and radiation hybrid mapping, Yandava et al. (1999) mapped the SOCS2 gene to chromosome 12q21.3-q23.