

Anti-SOCS2 Picoband Antibody
Catalog # ABO12091**Specification**

Anti-SOCS2 Picoband Antibody - Product Information

Application	WB
Primary Accession	O14508
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

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

Reconstitution

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

Anti-SOCS2 Picoband 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, Rat

Tissue Specificity

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

Protein Name

Suppressor of cytokine signaling 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human SOCS2 recombinant protein (Position: R96-V198). Human SOCS2 shares 96.1% and 95.1% amino acid (aa) sequence identity with mouse and rat SOCS2, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, 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 Picoband Antibody - Protein Information

Name SOCS2 {ECO:0000303|PubMed:10512686, ECO:0000312|HGNC:HGNC:19382}

Function

Substrate-recognition component of a cullin-5-RING E3 ubiquitin-protein ligase complex (ECS complex, also named CRL5 complex), which mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as EPOR and GHR (PubMed:11781573, PubMed:21980433, PubMed:25505247, PubMed:31182716, PubMed:34857742). Specifically recognizes and binds phosphorylated proteins via its SH2 domain, promoting their ubiquitination (PubMed:21980433, PubMed:25505247, PubMed:31182716, PubMed:34857742, PubMed:37816714). The ECS(SOCS2) complex acts as a key regulator of growth hormone receptor (GHR) levels by mediating ubiquitination and degradation of GHR, following GHR phosphorylation by JAK2 (PubMed:21980433, PubMed:25505247, PubMed:34857742). The ECS(SOCS2) also catalyzes ubiquitination and degradation of JAK2-phosphorylated EPOR (PubMed:11781573).

Cellular Location

Cytoplasm.

Tissue Location

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

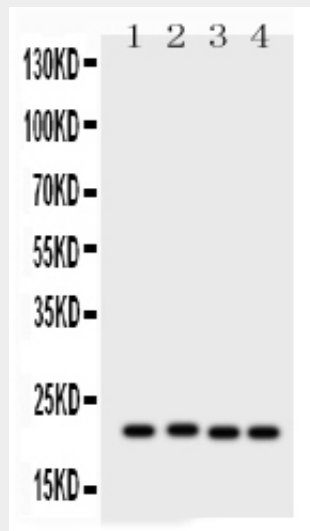
Anti-SOCS2 Picoband Antibody - Protocols

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 Picoband Antibody - Images



Anti- Picoband antibody, PB, Western blotting
All lanes: Anti SOCS2 (AB012091) at 0.5ug/ml
Lane 1: PC-12 Whole Cell Lysate at 40ug
Lane 2: SW620 Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Lane 4: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 22KD
Observed bind size: 22KD

Anti-SOCS2 Picoband 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. By cytogenetic and radiation hybrid mapping, Yandava et al. (1999) mapped the SOCS2 gene to chromosome 12q21.3-q23.