


## Product datasheet

# Anti-SOCS1 antibody ab9870

★★★★★ 4 Abreviews 9 References 7 图像

### 概述

产品名称	Anti-SOCS1抗体
描述	山羊多克隆抗体to SOCS1
宿主	Goat
经测试应用	适用于: IHC-P, WB, ICC/IF, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human, Pig 预测可用于: Cow, Dog 
免疫原	Synthetic peptide: VLRDYLSSFPFQI, corresponding to C terminal amino acids 199-211 of Human SOCS1 . <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
阳性对照	Mouse Spleen Lysate; Mouse and rabbit muscle whole tissue lysate.
常规说明	Principal Names - SSI-1; JAK binding protein; JAB; SOCS1; SOCS-1; CIS1; SS1 Official Gene Symbol - SOCS1 GenBank Accession Number – NP_003736 LocusLink ID - 8651

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, 5mg/ml Tris, pH 7.3
纯度	Immunogen affinity purified
纯化说明	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	多克隆
同种型	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab9870** in the following tested applications.

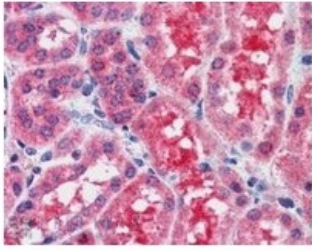
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-P		Use a concentration of 2 - 3 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 30-35 kDa. Can be blocked with <a href="#">Human SOCS1 peptide (ab23167)</a> .
ICC/IF		Use at an assay dependent concentration. PubMed: 21628332
Flow Cyt		Use at an assay dependent concentration. PubMed: 23298838 <a href="#">ab37373</a> - Goat polyclonal IgG, is suitable for use as an isotype control with this antibody.

## 靶标

功能	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS1 is involved in negative regulation of cytokines that signal through the JAK/STAT3 pathway. Through binding to JAKs, inhibits their kinase activity. In vitro, also suppresses Tec protein-tyrosine activity. Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia inhibitory factor (LIF). Regulates interferon-gamma mediated sensory neuron survival (By similarity). Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize JAK2.
组织特异性	Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes.
通路	Protein modification; protein ubiquitination.
序列相似性	Contains 1 SH2 domain. Contains 1 SOCS box domain.
结构域	The ESS and SH2 domains are required for JAK phosphotyrosine binding. Further interaction with the KIR domain is necessary for signal and kinase inhibition. The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes. The Elongin BC complex binding domain is also known as BC-box with the consensus [APST]-L-x(3)-C-x(3)-[AILV] and is part of the SOCS box.

## 图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS1 antibody (ab9870)

ab9870 (2.5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western blot - Anti-SOCS1 antibody (ab9870)

**Lanes 1-2** : Anti-SOCS1 antibody (ab9870)

at 0.3 µg/ml

**Lanes 3-4** : Anti-SOCS1 antibody (ab9870)

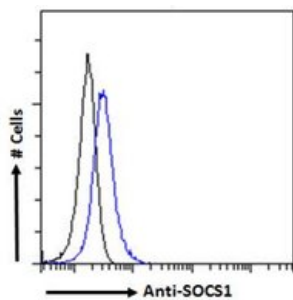
at 1 µg/ml

**Lane 1** : Human spleen lysate

**Lane 2** : Pig pancreas lysate

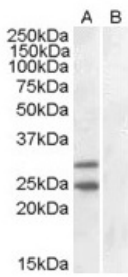
**Lane 3** : Mouse spleen lysate

**Lane 4** : Hela Cell lysate negative control



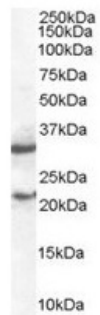
Flow Cytometry - Anti-SOCS1 antibody (ab9870)

Flow cytometric analysis of HEK293 cells with ab9870 (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (1ug/ml) followed by Alexa Fluor 488 secondary antibody.



Western blot - Anti-SOCS1 antibody (ab9870)

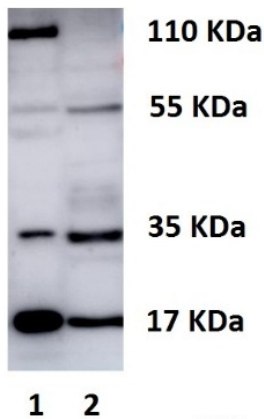
HEK293 overexpressing SOCS1 and probed with ab9870 (mock transfection in lane B).



Western blot - Anti-SOCS1 antibody (ab9870)

Anti-SOCS1 antibody (ab9870) at 2 µg/ml + Mouse Spleen Lysate in RIPA Buffer at 35 µg

Primary incubation for 1 hour.



Western blot - Anti-SOCS1 antibody (ab9870)

This image is courtesy of and Abreview from Sandra Perez

**All lanes :** Anti-SOCS1 antibody (ab9870) at 1/500 dilution

**Lane 1 :** Mouse muscle whole tissue lysate

**Lane 2 :** Mouse spleen whole tissue lysate

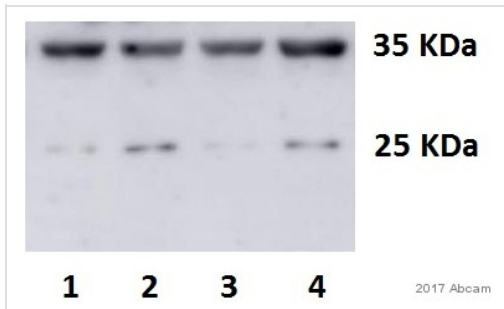
Lysates/proteins at 45 µg per lane.

**Secondary**

**All lanes :** Donkey Anti-Sheep/Goat IgG Antibody, HRP conjugate

Developed using the ECL technique.

**Exposure time:** 1 minute



Western blot - Anti-SOCS1 antibody (ab9870)

This image is courtesy of an Abreview from Sandra Perez

**All lanes :** Anti-SOCS1 antibody (ab9870) at 1/500 dilution

**All lanes :** Rabbit muscle whole tissue lysate

Lysates/proteins at 35 µg per lane.

### Secondary

**All lanes :** Donkey Anti-Sheep/Goat IgG

Antibody, HRP conjugate

Developed using the ECL technique.

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