

# Anti-SOCS1 antibody ab62584

[26 References](#)   [1 Image](#)

### Overview

<b>Product name</b>	Anti-SOCS1 antibody
<b>Description</b>	Rabbit polyclonal to SOCS1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic 15 amino acid peptide from near the carboxy terminus of human SOCS1.
<b>Positive control</b>	WB: Human spleen cell lysate.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

**The Abpromise guarantee**   Our **Abpromise guarantee** covers the use of ab62584 in the following tested applications.

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

Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 24 kDa).

## Target

### Function

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.

### Tissue specificity

Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes.

### Pathway

Protein modification; protein ubiquitination.

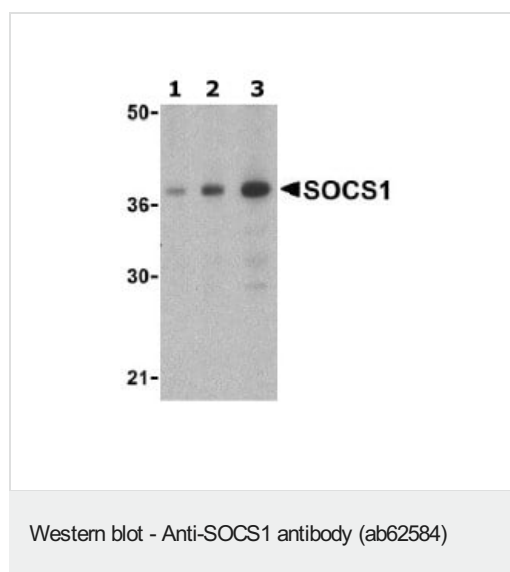
### Sequence similarities

Contains 1 SH2 domain.  
Contains 1 SOCS box domain.

### Domain

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.

## Images



**Lane 1 :** Anti-SOCS1 antibody (ab62584) at 1 µg/ml

**Lane 2 :** Anti-SOCS1 antibody (ab62584) at 2 µg/ml

**Lane 3 :** Anti-SOCS1 antibody (ab62584) at 4 µg/ml

**All lanes :** Human spleen  
cell lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 24 kDa

**Observed band size:** 38 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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