

## SOCS1 Polyclonal Antibody

<b>CATALOG NO:</b>	3861-30T	30 µg (Trial size)
	3861-100	100 µg
<b>HOST:</b>	Rabbit	
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 196 of rat SOCS1 (Internal ID# BV-950)	

**SPECIES REACTIVITY:** Human, Mouse, Rat

**FORMULATION:**

0.5 mg/ml affinity purified rabbit polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**STORAGE CONDITIONS:**

Store at -20°C. For long term storage, aliquot and freeze at -80°C. Avoid freeze/thaw cycles.

**BACKGROUND DESCRIPTION:**

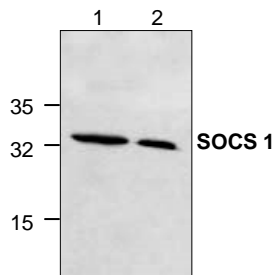
The Suppressor of cytokine signaling (SOCS) and cytokine-inducible SH2 proteins are a family of intracellular proteins that regulate responses to cytokines. SOCS1 suppresses dendritic cell and T cell hyperactivation in response to cytokine signaling by inhibiting the JAK tyrosine kinase. JAK tyrosine kinase activity is important for type I and II cytokine receptors to initiate signaling, and its activity is inhibited by direct binding of SOCS1 to the catalytic domain of the kinase. SOCS1 also has E3 ubiquitin protein ligase activity that results in the polyubiquitination of its target proteins and subsequent degradation by the proteasome.

**SPECIFICITY:**

The antibody detects ~30 kDa SOCS1 on SDS-PAGE immunoblots. Blocking peptide (Cat.# 3861BP-50) is available separately.

**APPLICATION AND USAGE:**

The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Other applications have not been tested.



**Cat. #: 3861-100**  
Western blot analysis of SOCS1 expression in Jurkat cell lysate (Lane 1, 2).

**FOR RESEARCH USE ONLY! Not to be used on humans.**

**RELATED PRODUCTS:**

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

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- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

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- DNA Damage Quantification Kit
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- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies