

## **SOCS1 Blocking Peptide**

Catalog # PBV10400b

#### **Specification**

## **SOCS1 Blocking Peptide - Product Information**

Primary Accession Q90X78
Gene ID 252971
Calculated MW 23826

## **SOCS1 Blocking Peptide - Additional Information**

Application & Usage

The peptide is used for blocking the antibody activity of SOCS1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

#### **Other Names**

Suppressor of cytokine signaling 1, SOCS-1, Socs1

# Target/Specificity

SOCS1

#### **Formulation**

 $50~\mu g$  (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

# **Reconstitution & Storage**

-20 °C

## **Background Descriptions**

### **Precautions**

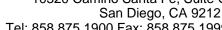
SOCS1 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

#### **SOCS1 Blocking Peptide - Protein Information**

#### Name Socs1

## **Function**

Essential negative regulator of type I and type II interferon (IFN) signaling, as well as that of other cytokines, including IL2, IL4, IL6 and leukemia inhibitory factor (LIF). Downregulates cytokine signaling by inhibiting the JAK/STAT signaling pathway. Acts by binding to JAK proteins and to IFNGR1 and inhibiting their kinase activity. In vitro, suppresses Tec protein-tyrosine activity. Regulates IFN-gamma (IFNG)-mediated sensory neuron survival. 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.

### **Cellular Location**

Nucleus {ECO:0000250|UniProtKB:O15524}. Cytoplasmic vesicle {ECO:0000250|UniProtKB:O15524}. Note=Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3 {ECO:0000250|UniProtKB:O15524}

# **SOCS1 Blocking Peptide - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**SOCS1 Blocking Peptide - Images**