

## SOCS-1 (PT1632R) PT™ Rabbit mAb

CatalogNo: YM9474 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human

#### Applications

- WB,IHC,IF,IP,ELISA

#### MW

- 24kD (Calculated)
- 22kD (Observed)

#### Isotype

- IgG,Kappa

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

### Recommended Dilution Ratios

**IHC 1:200-1:400****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

### Basic Information

**Clonality** Monoclonal**Clone Number** PT1632R

### Immunogen Information

**Specificity** Endogenous

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## | Target Information

**Gene name** SOCS1

**Protein Name** Suppressor of cytokine signaling 1

Organism	Gene ID	UniProt ID
Human	<a href="#">8651</a> ;	<a href="#">O15524</a> ;
Mouse	<a href="#">12703</a> ;	<a href="#">O35716</a> ;
Rat	<a href="#">252971</a> ;	<a href="#">Q9QX78</a> ;

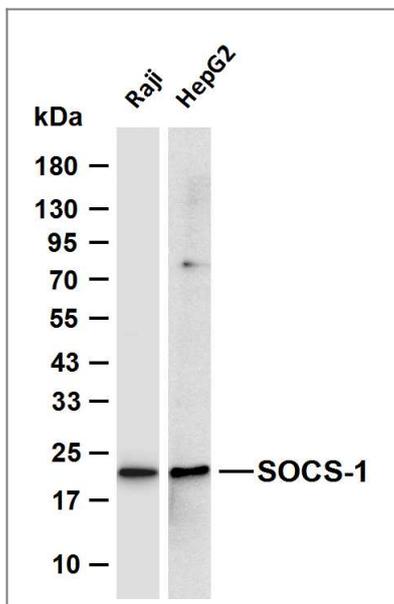
**Cellular Localization** Nucleus . Cytoplasmic vesicle . Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3.

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

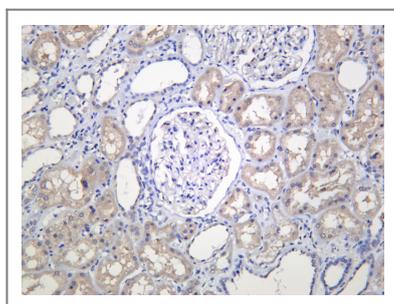
**Function** Domain:The ESS and SH2 domains are required for JAK phosphotyrosine binding. Further interaction with the KIR domain is necessary for signal and kinase inhibition.,Domain:The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin 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.,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.,induction:By a subset of cytokines including those belonging to the interferon, interleukin and colony-stimulating factor families.,pathway:Protein modification; protein ubiquitination.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 SOCS box domain.,subunit:Interacts with multiple activated signaling proteins of the tyrosine kinase signaling pathway including JAK family kinases, TEC, KIT, GRB2 and VAV. Binding to JAKs is mediated through the KIR and SH2 domains to a phosphorylated tyrosine residue within the JAK JH1 domain. Binds the SH3 domain of GRB2 via diproline determinants in the N-terminus, and the N-terminal regulatory domain of VAV (By similarity). Interacts with the Elongin BC complex (TCEB1 and TCEB2). Component of an ECS CBC(SOCS1) E3 ubiquitin-protein ligase complex which contains Elongin BC, CUL5, RBX1 and SOCS1 (By similarity). Interacts with TRIM8 (By similarity). Interacts with CUL2.,tissue specificity:Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes.,

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## | Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SOCS-1 (PT1632R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Raji Lane 2: HepG2 Predicted band size: 24kDa Observed band size: 22kDa



Human kidney was stained with anti-SOCS-1 (PT1632R) Rabbit antibody

## Contact information

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Please scan the QR code to access additional product information:  
**SOCS-1 (PT1632R)**  
**PT™ Rabbit mAb**

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