

# Anti-SOCS1 Antibody

Catalog # ABO10557

## Product Information

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| <b>Application</b>       | WB, IHC-P                                                                                                                         |
| <b>Primary Accession</b> | <a href="#">O15524</a>                                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                                            |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                                 |
| <b>Clonality</b>         | Polyclonal                                                                                                                        |
| <b>Format</b>            | Lyophilized                                                                                                                       |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Suppressor of cytokine signaling 1(SOCS1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                              |

## Additional Information

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| <b>Gene ID</b>                  | 8651                                                                                                                                                            |
| <b>Other Names</b>              | Suppressor of cytokine signaling 1, SOCS-1, JAK-binding protein, JAB, STAT-induced STAT inhibitor 1, SSI-1, Tec-interacting protein 3, TIP-3, SOCS1, SSI1, TIP3 |
| <b>Calculated MW</b>            | 23551                                                                                                                                                           |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse                      |
| <b>Subcellular Localization</b> | Nucleus . Cytoplasmic vesicle . Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3.                                                       |
| <b>Tissue Specificity</b>       | Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes.                                                       |
| <b>Source</b>                   | Eukaryota                                                                                                                                                       |
| <b>Protein Name</b>             | Suppressor of cytokine signaling 1(SOCS-1)                                                                                                                      |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                   |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human SOCS1(197-211aa NPVLRDYLSFPFQI), identical to the related mouse and rat sequences.   |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                    |

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| <b>Cross Reactivity</b>      | No cross reactivity with other proteins                                                                                                                                             |
| <b>Storage</b>               | At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Contains 1 SH2 domain.                                                                                                                                                              |

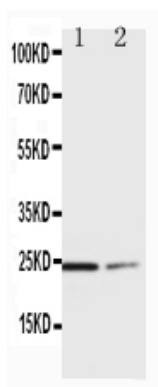
## Protein Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Name</b>              | SOCS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>          | SSI1, TIP3 {ECO:0000303   PubMed:9341160}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Function</b>          | 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) (PubMed: <a href="#">32499645</a> , PubMed: <a href="#">33087723</a> ). 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 (PubMed: <a href="#">9341160</a> ). Regulates IFN-gamma (IFNG)- 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 (PubMed: <a href="#">11278610</a> , PubMed: <a href="#">11313480</a> ). |
| <b>Cellular Location</b> | Nucleus. Cytoplasmic vesicle. Note=Detected in perinuclear cytoplasmic vesicles upon interaction with FGFR3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Tissue Location</b>   | Expressed in all tissues with high expression in spleen, small intestine and peripheral blood leukocytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

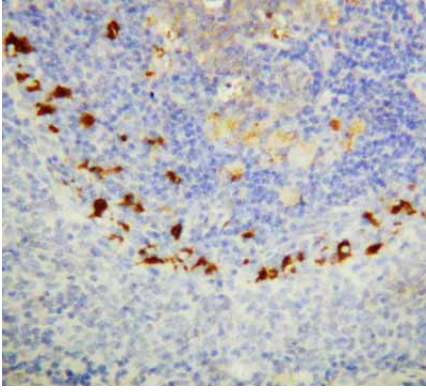
## Background

Suppressor of cytokine signaling 1(SOCS1), also known as Jak-binding protein(JAB), is a negative regulator to a subset of protein-tyrosine kinases. This 211-amino acid protein has a molecular mass of about 23.5 kD. The TEC-binding region of SOCS1 resides in the N terminus. SOCS1 associates with Tec and suppresses its kinase activity. The SOCS1 gene is intronless and is mapped to on chromosome 16p13.13. SOCS1 regulates the JAK/STAT signal-transduction pathway. Moreover, it contributes to protection against hepatic injury and fibrosis, and may also protect against hepatocarcinogenesis.

## Images



Anti-SOCS1 antibody, ABO10557, Western blotting  
Lane 1: HT1080 Cell Lysate  
Lane 2: COLO320 Cell Lysate



Anti-SOCS1 antibody, ABO10557, IHC(P)IHC(P): Rat Spleen Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.