# SOCS3 Conjugated Antibody

Catalog No: #C38150

Package Size: #C38150-AF350 100ul #C38150-AF405 100ul #C38150-AF488 100ul #C38150-AF555 100ul #C38150-AF594 100ul #C38150-AF647 100ul #C38150-AF680 100ul #C38150-AF750 100ul #C38150-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

## Description

| | |
|---|---|
| Product Name | SOCS3 Conjugated Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Species Reactivity | Hu Ms Rt |
| Specificity | The antibody detects endogenous level of total SOCS3 antibody. |
| Immunogen Description | Recombinant protein of human SOCS3. |
| Conjugates | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| Other Names | SOCS3;ATOD4;CIS3;Cish3;MGC71791;SOCS-3;SSI-3;SSI3 ; |
| Accession No. | Swiss-Prot#:O14543NCBI Gene ID:9021 |
| Uniprot | O14543 |
| GeneID | 9021; |
| Excitation Emission | AF350: 346nm/442nm<br>AF405: 401nm/421nm<br>AF488: 493nm/519nm<br>AF555: 555nm/565nm<br>AF594: 591nm/614nm<br>AF647: 651nm/667nm<br>AF680: 679nm/702nm<br>AF750: 749nm/775nm |
| Calculated MW | 25 |
| Formulation | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| Storage | Store at 4°C in dark for 6 months |

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

## Background

The suppressor of cytokine signaling (SOCS) family members are negative regulators of cytokine signal transduction that inhibit the Jak/Stat pathway (1-3). The SOCS family consists of at least 8 members including the originally identified cytokine-inducible SH2-containing protein (CIS1), as well as SOCS1-7. Each SOCS family member contains a central SH2 domain and a conserved carboxy-terminal motif designated as the SOCS box. These proteins are important regulators of cytokine signaling, proliferation, differentiation, and immune responses.

Low levels of SOCS3 are observed in lung, spleen and thymus, and like other SOCS family members levels its expression is rapidly induced by a number of factors including interleukins, EPO, IFN-γ, CSF and TNF-α (4). SOCS3 uses its SH2 domain to bind activated Jaks and their cognate receptors to provide negative feedback inhibition. In addition to the initially described inducers of SOCS3 expression, subsequent studies have described SOCS3-mediated negative feedback inhibition for leptin (5), GH (6), chemokine receptors (7), insulin (8) and certain pathogens (9,10). SOCS3 deletion results in embryonic lethality with placental insufficiency (11). SOCS3 signaling has been linked pathologically to allergic responses (12), inflammatory disease (13), endotoxic shock (14), wound repair (15), and obesity (16,17).

Note: This product is for in vitro research use only