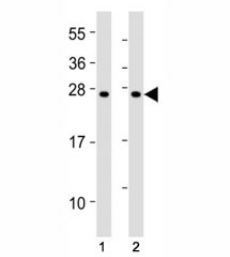
SOCS1 Antibody / Cytokine Signaling Regulator Antibody (F51354)

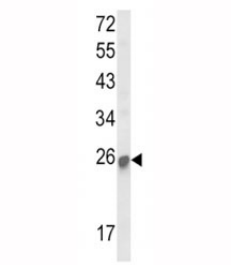
Catalog No.	Formulation	Size
F51354-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51354-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

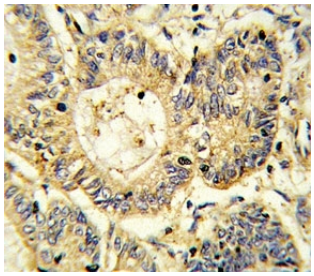
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O15524
Applications	Western blot: 1:1000-2000 IHC (Paraffin): 1:10-1:50 Immunofluorescence: 1:10-1:50 Flow Cytometry: 1:10-1:50
Limitations	This SOCS1 Antibody / Cytokine Signaling Regulator Antibody is available for research use only.



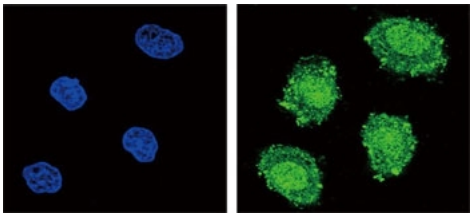
SOCS1 Antibody Mouse Thymus and Rat Spleen WB. Western blot testing of mouse thymus and rat spleen tissue lysates with SOCS1 Antibody at 1:2000 dilution. Lane 1: mouse thymus lysate; Lane 2: rat spleen lysate. A specific band was detected at approximately 24 kDa, consistent with the predicted molecular weight of SOCS1. SOCS1 Antibody / Cytokine Signaling Regulator Antibody supports studies of JAK STAT signaling, cytokine-mediated immune regulation, inflammatory responses and suppressor of cytokine signaling protein expression.



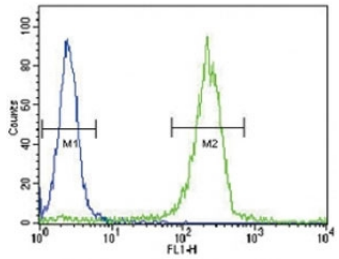
SOCS1 Antibody Mouse Kidney WB. Western blot testing of mouse kidney tissue lysate with SOCS1 Antibody. A specific band was detected at approximately 24 kDa, consistent with the predicted molecular weight of SOCS1. SOCS1 Antibody / Cytokine Signaling Regulator Antibody supports detection of suppressor of cytokine signaling 1 expression and studies of JAK STAT pathway regulation, cytokine feedback control, immune signaling and inflammatory response pathways.



SOCS1 Antibody Human Colon Cancer IHC. Immunohistochemistry staining of FFPE human colon carcinoma tissue with SOCS1 Antibody. The tissue section was incubated with SOCS1 antibody, followed by HRP-conjugated secondary antibody and DAB chromogen detection. SOCS1 Antibody / Cytokine Signaling Regulator Antibody demonstrates cytoplasmic staining in tumor cells and supports studies of suppressor of cytokine signaling 1 expression, JAK STAT pathway regulation, cytokine feedback control and inflammation-associated cancer signaling pathways.



SOCS1 Antibody 293 Cell IF. Immunofluorescent staining of human 293 cells with SOCS1 Antibody (green) and DAPI nuclear counterstain (blue). Cells were incubated with SOCS1 antibody followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG secondary antibody detection. SOCS1 Antibody / Cytokine Signaling Regulator Antibody demonstrates primarily cytoplasmic staining consistent with SOCS1 protein localization and supports studies of suppressor of cytokine signaling 1 expression, JAK STAT pathway regulation, cytokine signaling and immune response pathways.



SOCS1 Antibody WiDr Cell FACS. Flow cytometry testing of human WiDr colon cancer cells with SOCS1 Antibody. Cells were incubated with SOCS1 antibody followed by FITC-conjugated goat anti-rabbit IgG secondary antibody detection. Blue: negative control; Green: SOCS1 antibody. SOCS1 Antibody / Cytokine Signaling Regulator Antibody demonstrates increased fluorescence intensity consistent with SOCS1 expression and supports studies of suppressor of cytokine signaling 1, JAK STAT pathway regulation, cytokine feedback control and inflammation-associated signaling pathways.

Description

SOCS1 Antibody / Cytokine Signaling Regulator Antibody detects suppressor of cytokine signaling 1, an intracellular regulatory protein that controls cytokine receptor signaling and immune pathway activation. SOCS1 is a member of the SOCS family of proteins and functions as a negative feedback regulator of the JAK STAT signaling pathway. Through interactions with Janus kinases and cytokine receptor complexes, SOCS1 helps regulate the intensity and duration of cellular responses to cytokines, growth factors and inflammatory signals.

SOCS1 contains a central SH2 domain and a SOCS box domain that contribute to target recognition and regulation of signaling protein stability. Following cytokine stimulation, SOCS1 expression is induced as part of a feedback mechanism that limits excessive pathway activation. SOCS1 Antibody provides researchers with a tool for studying cytokine regulation, immune cell signaling and mechanisms controlling inflammatory responses.

The JAK STAT pathway is essential for communication between immune cells and regulates many biological processes including cell activation, differentiation and immune homeostasis. SOCS1 has been extensively studied in relation to interferon signaling, T cell regulation, macrophage activation and other cytokine-mediated responses. Altered SOCS1 expression and regulation are investigated in research involving immune dysfunction, inflammation and cancer-associated signaling pathways.

As a cytokine signaling regulator, SOCS1 plays an important role in balancing activation and inhibition of cellular responses. Research involving SOCS1 provides insight into how cells maintain signaling control after exposure to extracellular stimuli. Detection of SOCS1 expression supports studies of immune regulation, intracellular signaling networks and pathways involving cytokine receptor activity.

SOCS1 Antibody applications include detection of SOCS1 expression and localization in biological samples using techniques such as Western blot, immunohistochemistry, immunofluorescence and related protein analysis methods. NSJ Bioreagents provides SOCS1 Antibody / Cytokine Signaling Regulator Antibody for researchers studying JAK STAT signaling, cytokine pathways, immune regulation and inflammatory response mechanisms.

SOCS1 Antibody detects a regulator of cytokine signaling involved in JAK STAT pathway control, immune responses and inflammation, making it a useful marker for research areas featured in our Immunology Antibodies page.

Application Notes

Titration of the SOCS1 Antibody / Cytokine Signaling Regulator Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 35-66 from the human protein was used as the immunogen for this SOCS1 antibody.

Storage

Aliquot the SOCS1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Suppressor of Cytokine Signaling 1 Antibody, TIP3 Antibody, JAK Binding Protein Antibody, SSI1 Antibody, STAT Induced STAT Inhibitor 1 Antibody, Cytokine Inducible SH2 Protein Antibody

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