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SOCS3 Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2154a

Specification

SOCS3 Antibody (Ascites) - Product Information

Application	**WB,E**
Primary Accession	O14543
Other Accession	NP_003946.3
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM**
Calculated MW	**24770**

SOCS3 Antibody (Ascites) - Additional Information

Gene ID 9021

Other Names
Suppressor of cytokine signaling 3, SOCS-3, Cytokine-inducible SH2 protein 3, CIS-3, STAT-induced STAT inhibitor 3, SSI-3, SOCS3, CIS3, SSI3

Target/Specificity
This SOCS3 Antibody is generated from mouse immunized with recombinant protein of human SOCS3.

Dilution
WB~~1:500~1600
E~~Use at an assay dependent concentration.

Format
Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SOCS3 Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

SOCS3 Antibody (Ascites) - Protein Information

Name SOCS3 (HGNC:19391)

Synonyms CIS3, SSI3

Function SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including IL6ST/gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity and regulates IL6 signaling. Suppresses fetal liver erythropoiesis. Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells (By similarity). Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:15601820).

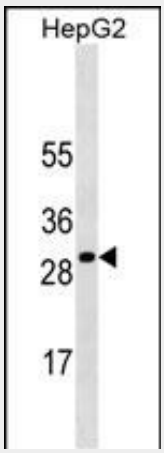
Tissue Location
Widely expressed with high expression in heart, placenta, skeletal muscle, peripheral blood leukocytes, fetal and adult lung, and fetal liver and kidney. Lower levels in thymus

SOCS3 Antibody (Ascites) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOCS3 Antibody (Ascites) - Images



SOCS3 Antibody (Cat. #AM2154a) western blot analysis in HepG2 cell line lysates (35µg/lane).This demonstrates the SOCS3 antibody detected the SOCS3 protein (arrow).

SOCS3 Antibody (Ascites) - Background

SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity. Suppresses fetal liver erythropoiesis. Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells. Regulates IL-6 signaling in vivo (By

similarity). Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize IL6ST (By similarity).

SOCS3 Antibody (Ascites) - References

Stevenson, N.J., et al. FEBS Lett. 584(21):4469-4474(2010)
Silva, L.K., et al. Eur. J. Hum. Genet. 18(11):1221-1227(2010)
Akhtar, L.N., et al. J. Immunol. 185(4):2393-2404(2010)
Sun, L.P., et al. Genet. Mol. Res. 9(3):1518-1524(2010)
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