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SOCS3 Antibody (clone SO1)
Mouse Monoclonal Antibody
Catalog # ALS12760

Specification

SOCS3 Antibody (clone SO1) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	O14543
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**25kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A**

SOCS3 Antibody (clone SO1) - 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
Recognizes suppressor of cytokine signaling 3 (SOCS3), a 30kD member of the suppressor of cytokine signaling family (SOCS) which negatively regulate Janus Kinase (JAK) and signal transducer and activators of transcription (STAT) signaling pathways. S ...

Reconstitution & Storage
+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions
SOCS3 Antibody (clone SO1) is for research use only and not for use in diagnostic or therapeutic procedures.

SOCS3 Antibody (clone SO1) - 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

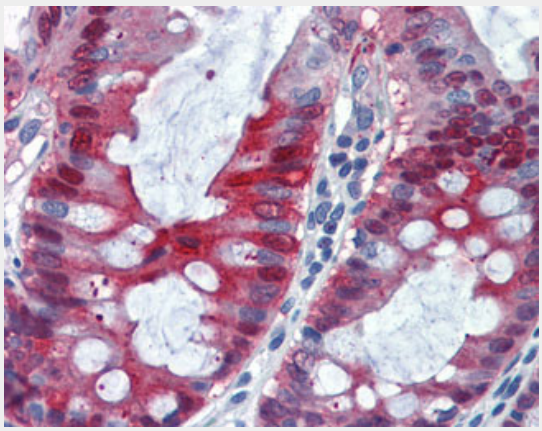
Volume
250 µl

SOCS3 Antibody (clone SO1) - 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 (clone SO1) - Images



Anti-SOCS3 antibody IHC of human colon.

SOCS3 Antibody (clone SO1) - 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 (clone SO1) - References

Minamoto S.,et al.Biochem. Biophys. Res. Commun. 237:79-83(1997).
Masuhara M.,et al.Biochem. Biophys. Res. Commun. 239:439-446(1997).
Dey B.R.,et al.Biochem. Biophys. Res. Commun. 278:38-43(2000).
Sasaki A.,et al.Genes Cells 4:339-351(1999).
Hoertner M.,et al.Eur. J. Biochem. 269:2516-2526(2002).