ARG63099
anti-SOCS3 antibody [SO1]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SO1] recognizes SOCS3
Tested Reactivity	Hu
Tested Application	WB
Specificity	The clone SO1 reacts with SOCS3, an intracellular cytokine signaling inhibitor.
Host	Mouse
Clonality	Monoclonal
Clone	SO1
Isotype	IgG2b
Target Name	SOCS3
Immunogen	Full-length SOCS3 protein.
Conjugation	Un-conjugated
Alternate Names	SOCS-3; Cish3; CIS-3; Suppressor of cytokine signaling 3; SSI-3; SSI3; CIS3; Cytokine-inducible SH2 protein 3; STAT-induced STAT inhibitor 3; ATOD4

Application Instructions

Application table

Application	Dilution
WB	Assay-dependent

Application Note: WB: Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with reducing Laemmli SDS-PAGE sample buffer. Application note: Reducing condition.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: WB: HeLa

Properties

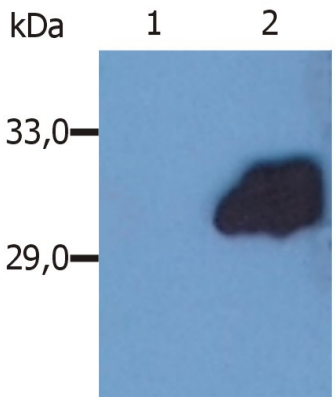
Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein A-affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 9021 Human Swiss-port # O14543 Human
Gene Symbol	SOCS3
Gene Full Name	suppressor of cytokine signaling 3
Background	SOCS3 (suppressor of cytokine signaling 3), also known as CIS3 (cytokine-inducible SH2 protein 3) is a negative regulator of particular cytokine signaling pathways. SOCS3 is induced by a variety of cytokines and other stimuli, such as erythropoietin, leptin and lipopolysaccharides and inhibits tyrosinkinase activity of JAK kinases, or e.g. JNK phosphorylation. SOCS3 modulates cytokine-mediated and neoplastic-proliferative responses and is involved also in maintaining leukocytes in quiescent state until antigen stimulation.
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 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). [UniProt]
Research Area	Cancer antibody; Developmental Biology antibody; Gene Regulation antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	25 kDa
PTM	Phosphorylated on tyrosine residues after stimulation by the cytokines, IL-2, EPO or IGF1.

Images



ARG63099 anti-SOCS3 antibody [SO1] WB image

Western blot: HeLa cell lysate stained with 1) Isotype mouse IgG2b control antibody or 2) ARG63099 anti-SOCS3 antibody [SO1]. .