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ARG55607
anti-SOCS1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SOCS1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SOCS1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 35-66 (N-terminus) of Human SOCS1.
Conjugation	Un-conjugated
Alternate Names	SOCS-1; Suppressor of cytokine signaling 1; TIP-3; CISH1; SSI-1; JAK-binding protein; CIS1; SSI1; Tec-interacting protein 3; TIP3; JAB; STAT-induced STAT inhibitor 1

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
ICC/IF	1:10 - 1:50
IHC-P	1:10 - 1:50
WB	1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse kidney

Properties

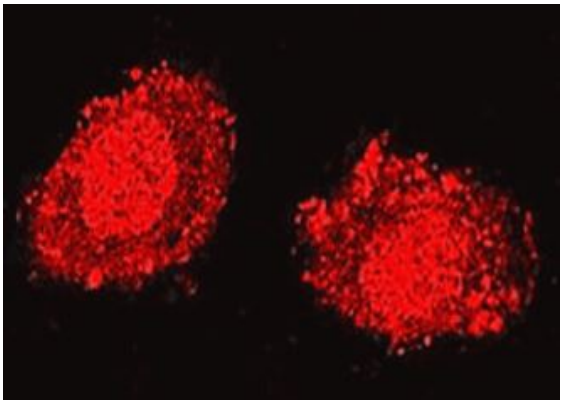
Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. 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

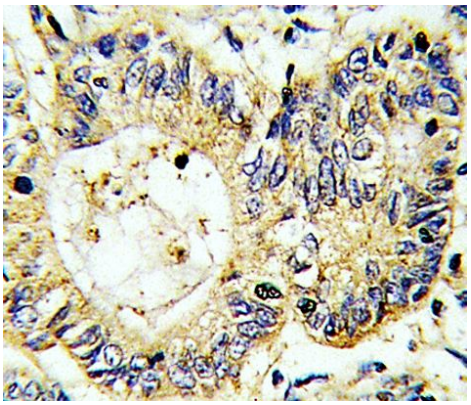
Database links	GeneID: 12703 Mouse GeneID: 8651 Human Swiss-port # O15524 Human Swiss-port # O35716 Mouse
Gene Symbol	SOCS1
Gene Full Name	suppressor of cytokine signaling 1
Background	This gene encodes a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signaling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by a subset of cytokines, including IL2, IL3 erythropoietin (EPO), CSF2/GM-CSF, and interferon (IFN)-gamma. The protein encoded by this gene functions downstream of cytokine receptors, and takes part in a negative feedback loop to attenuate cytokine signaling. Knockout studies in mice suggested the role of this gene as a modulator of IFN-gamma action, which is required for normal postnatal growth and survival. [provided by RefSeq, Jul 2008]
Function	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS1 is involved in negative regulation of cytokines that signal through the JAK/STAT3 pathway. Through binding to JAKs, inhibits their kinase activity. In vitro, also suppresses Tec protein-tyrosine activity. Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia inhibitory factor (LIF). Regulates interferon-gamma mediated sensory neuron survival (By similarity). Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize JAK2. SOCS1 appears to be a negative regulator in IGF1R signaling pathway. [UniProt]
Research Area	Gene Regulation antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	24 kDa

Images



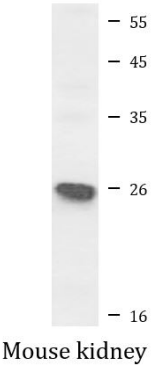
ARG55607 anti-SOCS1 antibody ICC/IF image

Immunofluorescence: 293 cells stained with ARG55607 anti-SOCS1 antibody.



ARG55607 anti-SOCS1 antibody IHC-P image

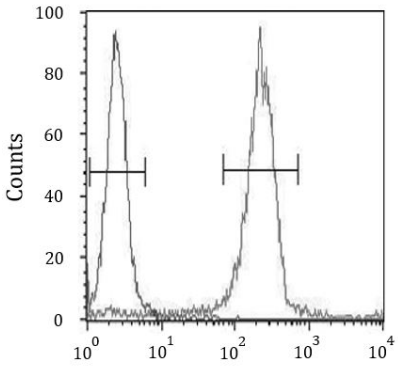
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human colon carcinoma stained with ARG55607 anti-SOCS1 antibody.



Mouse kidney

ARG55607 anti-SOCS1 antibody WB image

Western blot: 35 µg of Mouse kidney lysate stained with ARG55607 anti-SOCS1 antibody.



ARG55607 anti-SOCS1 antibody FACS image

Flow Cytometry: WiDr cells stained with ARG55607 anti-SOCS1 antibody (right histogram) or without primary antibody as control (left histogram), followed by incubation with FITC labelled secondary antibody.