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SOCS3 Rabbit pAb

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Catalog # AP52034

Product Information

Application	WB
Primary Accession	O14543
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24770
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Socs3
Epitope Specificity	155-225/225
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm
DISEASE	Genetic variation in the promoter region of SOCS3 may be associated with susceptibility to atopic dermatitis 4 (ATOD4) [MIM:605805]. Atopic dermatitis [MIM:603165], also known as eczema commonly begins in infancy or early childhook and is characterized by ichy and inflamed skin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cytokines signal transduction pathway suppressor of cytokine signaling 3 positive cells in the brain are widely distributed, some of the cytoplasm of neurons, nerve fibers, glial cell line. suppressor of cytokine signaling 3 studies in recent years to prove: vascular endothelial cells also showed immune SOCS 3-positive.

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 (HGNC:19391), CIS3, SSI3
Dilution	WB=1:500-2000,Flow-Cyt=1ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 (PubMed:16459330). Inhibits signal transduction by binding to transmembrane signaling receptors including IL6ST/gp130, LIFR, EPOR, INSR, IL12RB2, CSF3R/G-CSF-R and LEPR. 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). Upon OSM stimulation, negatively regulates the JAK-STAT signaling mediated through type II OSM receptor complex by interacting directly with JAK1 (PubMed:16459330).
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

Background

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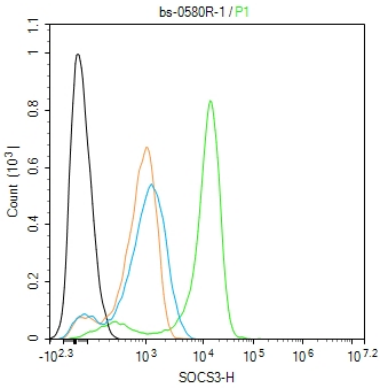
References

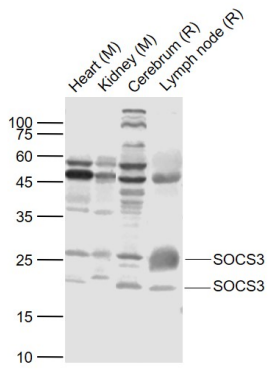
Minamoto S.,et al.Biochem. Biophys. Res. Commun. 237:79-83(1997).
Masuhara M.,et al.Biochem. Biophys. Res. Commun. 239:439-446(1997).
Dey B.R.,et al.Biochem. Biophys. Res. Commun. 278:38-43(2000).
Sasaki A.,et al.Genes Cells 4:339-351(1999).
Hoertner M.,et al.Eur. J. Biochem. 269:2516-2526(2002).

Images



Blank control:U937.
Primary Antibody (green line): Rabbit Anti-SOCS3 antibody (AP52034)
Dilution: 1ug/Test;
Secondary Antibody : Goat anti-rabbit IgG-FITC
Dilution: 0.5ug/Test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was

performed.



Sample:
Lane 1: Heart (Mouse) Lysate at 40 ug
Lane 2: Kidney (Mouse) Lysate at 40 ug
Lane 3: Cerebrum (Rat) Lysate at 40 ug
Lane 4: Lymph node (Rat) Lysate at 40 ug
Primary: Anti-SOCS3 (AP52034) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 23-27 kD
Observed band size: 27/23 kD

Citations

- Reg3g Promotes Pancreatic Carcinogenesis in a Murine Model of Chronic Pancreatitis.