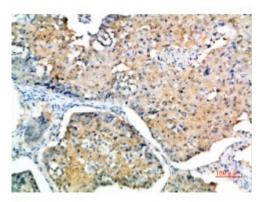


Anti-SOCS-3 antibody





Description Rabbit polyclonal to SOCS-3.

Model STJ98729

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, IHC

Immunogen Synthetic peptide from human SOCS-3 protein.

Immunogen Region 20-70 aa

Gene ID 9021

Gene Symbol SOCS3

Dilution range IHC-P 1:50-300ELISA 1:5000-20000

Specificity The antibody detects endogenous SOCS-3.

Tissue Specificity 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.

Purification The antibody was affinity-purified from rabbit serum by affinity-

chromatography using specific immunogen.

Note For Research Use Only (RUO).

Protein Name Suppressor of cytokine signaling 3 SOCS-3 Cytokine-inducible SH2 protein 3

CIS-3 STAT-induced STAT inhibitor 3 SSI-3

Clonality Polyclonal

Unconjugated Conjugation

Isotype IgG

PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% **Formulation**

Glycerol.

1 mg/ml Concentration

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:19391OMIM:604176

Alternative Names Suppressor of cytokine signaling 3 SOCS-3 Cytokine-inducible SH2 protein 3

CIS-3 STAT-induced STAT inhibitor 3 SSI-3

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 . 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.

Sequence and Domain Family The ESS and SH2 domains are required for JAK phosphotyrosine binding.

> Further interaction with the KIR domain is necessary for signal and kinase inhibition.; The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes.

> Phosphorylated on tyrosine residues after stimulation by the cytokines, IL-2,

Post-translational

Modifications

EPO or IGF1.

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