

SOCS-3 Monoclonal Antibody

Catalog No :	YM1098
Reactivity :	Human;Pig
Applications :	WB;IHC;IF
Target :	SOCS-3
Fields :	>>Ubiquitin mediated proteolysis;>>Osteoclast differentiation;>>JAK-STAT signaling pathway;>>TNF signaling pathway;>>Insulin signaling pathway;>>Prolactin signaling pathway;>>Adipocytokine signaling pathway;>>Type II diabetes mellitus;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>Growth hormone synthesis, secretion and action;>>Hepatitis C;>>Influenza A;>>Herpes simplex virus 1 infection
Gene Name :	SOCS3
Protein Name :	Suppressor of cytokine signaling 3
Human Gene Id :	9021
Human Swiss Prot No :	O14543
Mouse Swiss Prot No :	O35718
Immunogen :	Purified recombinant human SOCS-3 (N-terminus) protein fragments expressed in E.coli.
Specificity :	SOCS-3 Monoclonal Antibody detects endogenous levels of SOCS-3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. IHC 1:500 - 1:1000.. IF 1:50-200
Purification :	Affinity purification

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 25kD

Cell Pathway : Ubiquitin mediated proteolysis;Jak_STAT;Insulin_Receptor;Adipocytokine;Type II diabetes mellitus;

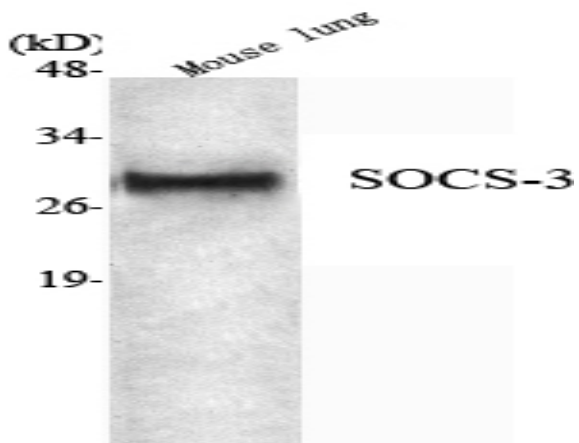
Background : This gene encodes a member of the STAT-induced STAT inhibitor (SSI), also known as suppressor of cytokine signaling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene is induced by various cytokines, including IL6, IL10, and interferon (IFN)-gamma. The protein encoded by this gene can bind to JAK2 kinase, and inhibit the activity of JAK2 kinase. Studies of the mouse counterpart of this gene suggested the roles of this gene in the negative regulation of fetal liver hematopoiesis, and placental development. [provided by RefSeq, Jul 2008],

Function : 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 childhood and is characterized by itchy and inflamed skin.,domain:The ESS and SH2 domains are required for JAK phosphotyrosine binding. Further interaction with the KIR domain is necessary for signal and kinase inhibition.,domain:The SOCS box domain mediates the interaction with the Elongin BC complex, an adapter module in different E3 ubiquitin ligase complexes.,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 includ

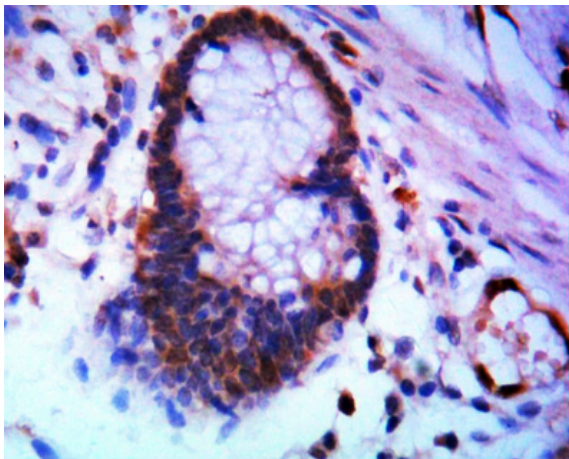
Subcellular Location : intracellular,cytoplasm,cytosol,

Expression : 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.

Products Images



Western Blot analysis using SOCS-3 Monoclonal Antibody against mouse lung lysate.



Immunohistochemistry analysis of paraffin-embedded human colon using SOCS-3 Monoclonal Antibody.