

Basic Information

Product Name	Anti-SOCS3 Antibody	
Gene Name	SOCS3	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human SOCS3 recombinant protein (Position: S13-L225).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	28-30 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

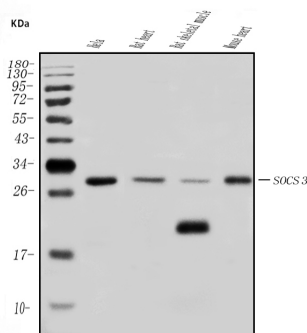
SOCS3 (Suppressor of cytokine signaling 3) is a protein that in humans is encoded by the SOCS3 gene. SOCS3 is transiently expressed by multiple cell lineages within the immune system and functions predominantly as a negative regulator of cytokines that activate the JAK-STAT3 pathway. This gene encodes 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. For signaling of IL-6, Epo, GCSF and Leptin, binding of SOCS3 to the respective cytokine receptor has been found to be crucial for the inhibitory function of SOCS3. 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.

Reference

Anti-SOCS3 Antibody被引用在3文献中。

Selected Validation Data



Western blot analysis of SOCS3 using anti-SOCS3 antibody

(A00274-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HELA whole cell lysates,

Lane 2: rat heart tissue lysates,

Lane 3: rat skeletal muscle tissue lysates,

Lane 4: mouse heart tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-SOCS3 antigen

affinity purified polyclonal antibody (A00274-2) at a dilution of

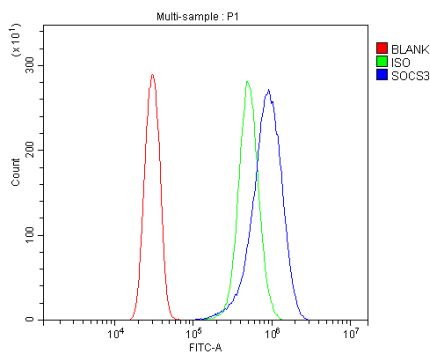
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for SOCS3 at approximately 28-30 kDa. The expected band

size for SOCS3 is at 25 kDa.



Flow Cytometry analysis of SiHa cells using anti-SOCS3 antibody (A00274-2).

Overlay histogram showing SiHa cells stained with A00274-2 (Blue

line). To facilitate intracellular staining, cells were fixed with 4%

paraformaldehyde and permeabilized with permeabilization buffer.

The cells were blocked with 10% normal goat serum. And then

incubated with rabbit anti-SOCS3 Antibody (A00274-2) at 1:100

dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit

IgG (BA1127) was used as secondary antibody at 1:100 dilution for

30 minutes at 20°C. Isotype control antibody (Green line) was rabbit

Product datasheet

Anti-SOCS3 Antibody

Catalog Number: **A00274-2**

BOSTER[®]

antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.