Product datasheet

Anti-SOCS3 Antibody

Catalog Number: *PB0452*

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Basic Information

Product Name	Anti-SOCS3 Antibody
Gene Name	SOCS3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human SOCS3 recombinant protein (Position: V2-L225). Human SOCS3 shares 96.9% and 95.5% amino acid (aa) sequence identity with mouse and rat SOCS3, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	28-30 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ 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

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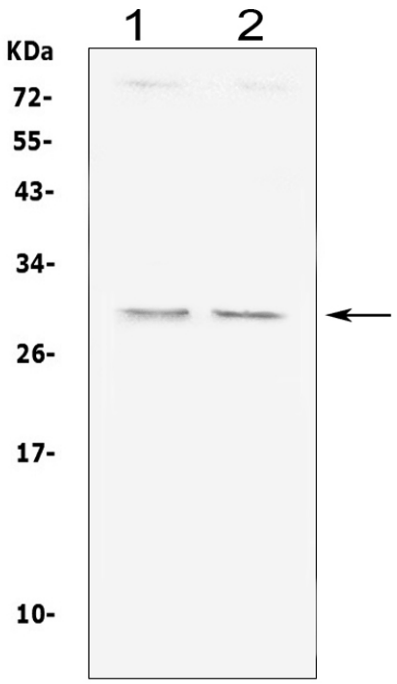
development.

Reference

Anti-SOCS3 Antibody被引用在3文献中。

Selected Validation Data



Western blot analysis of SOCS3 using anti-SOCS3 antibody (PB0452). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human k562 whole cell lysates,
Lane 2: human PC-3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SOCS3 antigen affinity purified polyclonal antibody (PB0452) 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.