

Basic Information

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|---------------------------|---|--|
| Product Name | Anti-SOCS3 Antibody | |
| Gene Name | SOCS3 | |
| Source | Rabbit | |
| Clonality | Polyclonal | |
| Isotype | IgG | |
| Species Reactivity | human, mouse | |
| Tested Application | WB, IHC | |
| Contents | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. | |
| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human SOCS3, identical to the related mouse sequence, different from the related rat sequence by one amino acid. | |
| Concentration | 500 ug/ml | |
| Purification | Immunogen affinity purified. | |
| Observed MW | 28-30 kDa | |
| Dilution Ratios | Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. | |

Storage

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

Background Information

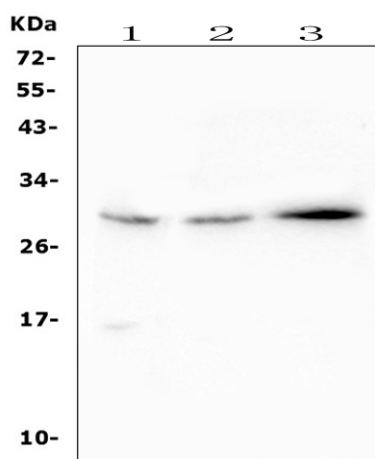
SOCS3(Suppressor of cytokine signaling 3) is a protein that in humans is encoded by the SOCS3 gene. SOCS3 is transiently expressed by multiple cell lineages within the immune system and functions predominantly as a negative regulator of cytokines that activate the JAK-STAT3 pathway. This gene encodes 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2文献中。

Selected Validation Data



Western blot analysis of SOCS3 using anti-SOCS3 antibody (BA2375). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

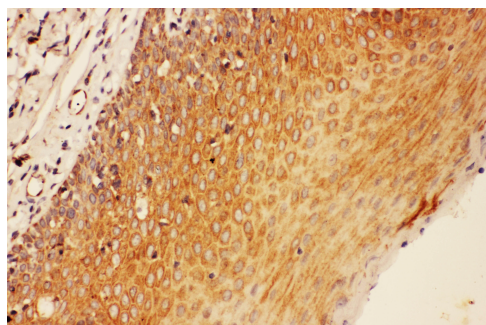
Lane 2: human A549 whole cell lysates,

Lane 3: human A431 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 (BA2375) 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.



IHC analysis of SOCS3 using anti-SOCS3 antibody (BA2375).

SOCS3 was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-SOCS3 Antibody (BA2375) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.