SOCS3 (L210) Antibody

MW (kDa): 26  Source: Rabbit  UniProt ID: O14543  Entrez-Gene Id: 9021

Storage
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity
SOCS3 (L210) Antibody detects endogenous levels of total SOCS3 protein.

Species predicted to react based on 100% sequence homology:
Monkey, Bovine, Dog

Source / Purification
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu210 of SOCS3. Antibodies were purified by protein A and peptide affinity chromatography.

Background
The suppressor of cytokine signaling (SOCS) family members are negative regulators of cytokine signal transduction that inhibit the Jak/Stat pathway (1-3). The SOCS family consists of at least 8 members including the originally identified cytokine-inducible SH2-containing protein (CIS1), as well as SOCS1-7. Each SOCS family member contains a central SH2 domain and a conserved carboxy-terminal motif designated as the SOCS box. These proteins are important regulators of cytokine signaling, proliferation, differentiation, and immune responses.

Low levels of SOCS3 are observed in lung, spleen and thymus and, like other SOCS family members, its expression is rapidly induced by a number of factors including interleukins, EPO, IFN-γ family members, its expression is rapidly induced by a number of factors including interleukins, EPO, IFN-γ, GH (6), chemokine receptors (7), insulin (8), and certain pathogens (9,10). SOCS3 deletion results in described SOCS3-mediated negative feedback inhibition for leptin (5), GH (6), chemokine receptors (7), insulin (8), and certain pathogens (9,10). SOCS3 deletion results in embryonic lethality with placental insufficiency (11). SOCS3 signaling has been linked to adaptive immune responses (12), inflammatory disease (13), endotoxic shock (14), wound repair (15), and obesity (16,17).


IMPORTANT: For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the product-specific protocol for our antibody diluent recommendation.