

SOCS-2 (E67) polyclonal antibody

Catalog: BS65400

Host: Rabbit

Reactivity: Human

BackGround:

The suppressor of cytokine signaling (SOCS) family members are negative regulators of cytokine signal transduction that inhibit the Jak/Stat pathway. 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.

Activity of SOCS2 has been predominantly linked to growth hormone (GH) and insulin-like growth factor 1 (IGF-1) signaling but may also contribute to several biological processes including metabolism, bone formation, neuronal development, cancer, infection and other cytokine-dependent pathways. SOCS2 is widely expressed in adult and fetal tissues and is induced upon cytokine treatment. A number of studies suggest that SOCS2 can have either a positive or negative effect on GH/cytokine signaling. Mice deficient in SOCS2 grow significantly larger than normal littermates. SOCS2 binds to tyrosine-phosphorylated GH and IGF-1 receptors via its SH2 domain, suppressing their signaling. In addition, the SOCS box of SOCS2 binds to Elongin B and C leading to activity as a ubiquitin ligase, promoting the degradation of the receptors as well as other SOCS family members.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 22 kDa

Swiss-Prot:

O14508

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:5000~1:10000

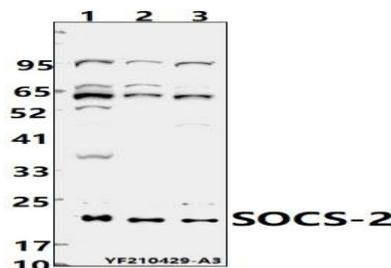
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

SOCS-2 (E67) polyclonal antibody detects endogenous levels of SOCS-2 protein.

DATA:



Western blot (WB) analysis of SOCS-2 (E67) polyclonal antibody at 1:5000 dilution

Lane1:A549 whole cell lysate(40ug)

Lane2:PC3 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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