
Product Name: KO-Validated Suppressor Of Cytokine Signaling 2 Recombinant Rabbit Monoclonal Antibody**Catalog #:** KVA00083

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 22.2kDa

Antigen Information

Gene Name	SOCS2 SOCS2; Suppressor Of Cytokine Signaling 2; STAT12; SOCS-2; SSI-2; SSI2; CIS2; Cish2;
Alternative Names	Cytokine-Inducible SH2 Protein; STAT-Induced STAT Inhibitor 2; CIS-2; STAT-Induced STAT Inhibitor-2
Gene ID	8835.0
SwissProt ID	O14508
Immunogen	A synthesized peptide derived from human SOCS2

Background

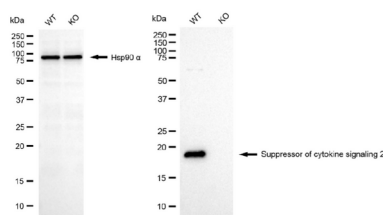
This gene encodes a member of the suppressor of cytokine signaling (SOCS) family. SOCS family members are cytokine-

inducible negative regulators of cytokine receptor signaling via the Janus kinase/signal transducer and activation of transcription pathway (the JAK/STAT pathway). SOCS family proteins interact with major molecules of signaling complexes to block further signal transduction, in part, by proteasomal depletion of receptors or signal-transducing proteins via ubiquitination. The expression of this gene can be induced by a subset of cytokines, including erythropoietin, GM-CSF, IL10, interferon (IFN)-gamma and by cytokine receptors such as growth hormone receptor. The protein encoded by this gene interacts with the cytoplasmic domain of insulin-like growth factor-1 receptor (IGF1R) and is thought to be involved in the regulation of IGF1R mediated cell signaling. This gene has pseudogenes on chromosomes 20 and 22. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

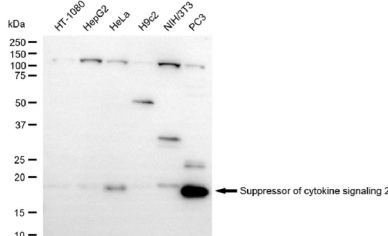
Research Area

Immunology, Neuroscience, Signal Transduction

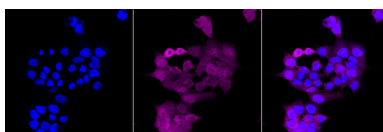
Image Data



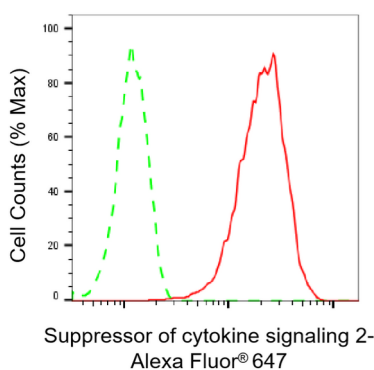
Western blotting analysis using suppressor of cytokine signaling 2 antibody (KVA00083). Suppressor of cytokine signaling 2 expression in wild type (WT) and suppressor of cytokine signaling 2 (SOCS2) knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with suppressor of cytokine signaling 2 antibody (KVA00083, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using suppressor of cytokine signaling 2 antibody (KVA00083). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with suppressor of cytokine signaling 2 antibody (KVA00083, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Suppressor of cytokine signaling 2 antibody (KVA00083, 1:1,000). Nuclei were stained blue with DAPI; Suppressor of cytokine signaling 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Suppressor of cytokine signaling 2 expression in HAP-1 cells using Suppressor of cytokine signaling 2 antibody (KVA00083, 1:2,000). Green, isotype control; red, Suppressor of cytokine signaling 2.