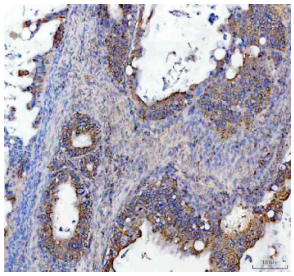
SOCS5 Antibody / Suppressor of cytokine signaling 5 (RQ8936)

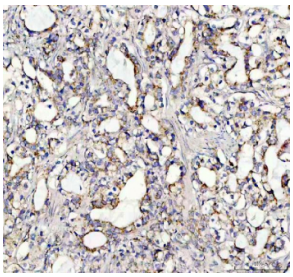
Catalog No.	Formulation	Size
RQ8936	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

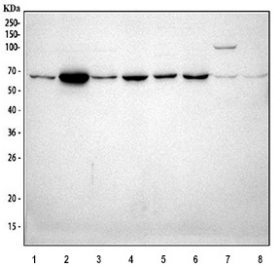
Availability	1-2 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O75159
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml ELISA: 0.1-0.5ug/ml
Limitations	This SOCS5 antibody is available for research use only.



IHC staining of FFPE human ovarian tissue with SOCS5 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostatic acinar adenocarcinoma tissue with SOCS5 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human U-87 MG, 2) human U-2 OS, 3) human A549, 4) human K562, 5) human 293T, 6) human HeLa, 7) rat brain and 8) mouse brain tissue lysate with Cd163 antibody. Predicted molecular weight ~61 kDa.

Description

SOCS5 (Suppressor of cytokine signaling 5) is a member of the SOCS family, a group of intracellular proteins that function as negative regulators of cytokine receptor signaling. SOCS5 contains an SH2 domain and a SOCS box motif, allowing it to interact with activated receptors and associated kinases to modulate JAK-STAT pathway activity. By preventing excessive cytokine signaling, SOCS5 maintains immune system balance and contributes to cellular homeostasis. A SOCS5 antibody is a valuable tool for investigating these regulatory mechanisms.

SOCS5 has been implicated in the regulation of interleukin and growth factor signaling. Its activity helps control cell proliferation, differentiation, and survival. Aberrant expression or dysfunction of SOCS5 has been associated with various pathological conditions, including chronic inflammation, autoimmune disorders, and certain cancers. Using a SOCS5 antibody enables researchers to evaluate its expression patterns, molecular interactions, and role in disease development.

In addition to its role in immune regulation, SOCS5 has been shown to influence neural development and epithelial cell signaling, highlighting its multifunctional nature. Studies have indicated that SOCS5 can act as a tumor suppressor in specific contexts, while in other cases, it may contribute to oncogenesis depending on the signaling environment. Employing a SOCS5 antibody allows for precise characterization of these complex roles across different biological systems.

NSJ Bioreagents offers a high-quality SOCS5 antibody validated for applications such as western blot, immunohistochemistry, and immunofluorescence. Selecting a SOCS5 antibody from NSJ Bioreagents ensures reliable performance for studies of cytokine signaling, immune regulation, and cancer biology.

Application Notes

Optimal dilution of the SOCS5 antibody should be determined by the researcher.

Immunogen

Amino acids M386-K536 from the human protein were used as the immunogen for the SOCS5 antibody.

Storage

After reconstitution, the SOCS5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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