abcam

ab9870

Anti-SOCS1 antibody

Key facts

Isotype	IgG
Host species	Goat
Storage buffer	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 0.5% Tris
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human SOCS1 aa 150 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link O15524
Purification technique	Affinity purification Immunogen
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	2-3 µg/mL
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Human
Dilution info	2-3 µg/mL
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Predicted

Species	Cow, Dog, Pig, Rat
Dilution info	-
Notes	-

ICC

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human

Dilution info	-
Notes	ab37373 - Goat polyclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig, Rat
Dilution info	-
Notes	-

ICC/IF

Expected

Species	Mouse, Rat, Pig, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig, Rat
Dilution info	-
Notes	-

Target data

See full target information SOCS1

Function	Essential negative regulator of type I and type II interferon (IFN) signaling, as well as that of other cytokines, including IL2, IL4, IL6 and leukemia inhibitory factor (LIF) (PubMed:32499645, PubMed:33087723). Downregulates cytokine signaling by inhibiting the JAK/STAT signaling pathway. Acts by binding to JAK proteins and to IFNGR1 and inhibiting their kinase activity. In vitro, suppresses Tec protein-tyrosine activity (PubMed:9341160). Regulates IFN-gamma (IFNG)-mediated sensory neuron survival (By similarity). Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:11278610, PubMed:11313480).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

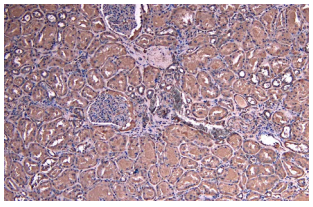
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

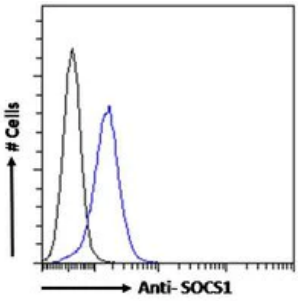
4 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS1 antibody (ab9870)

SOCS1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using goat Anti-SOCS1 antibody

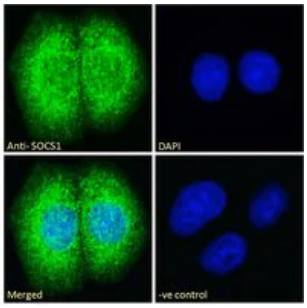
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of paraffin embedded Human Kidney with ab9870 (8 µg/ml). Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Flow Cytometry (Intracellular) - Anti-SOCS1 antibody (ab9870)

SOCS1 Flow Cytometry (Intracellular) staining using goat Anti-SOCS1 antibody

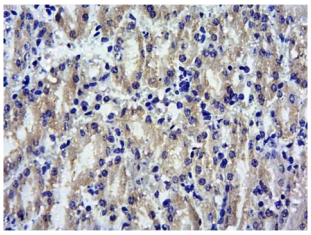
Flow cytometric analysis of HEK293 cells with ab9870 (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry - Anti-SOCS1 antibody (ab9870)

SOCS1 Immunocytochemistry staining using goat Anti-SOCS1 antibody

Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation with ab9870 (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing cytoplasmic and nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOCS1 antibody (ab9870)

SOCS1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using goat Anti-SOCS1 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of paraffin embedded Mouse Kidney with ab9870 (8 µg/ml). Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.