

# SOCS-4 (S-19): sc-68828

## BACKGROUND

Members of the suppressor of cytokine signaling (SOCS) family of proteins contain C-terminal regions of homology called the SOCS box, which serves to couple SOCS proteins and their binding partners with the Elongin B/C complex. Several other families of proteins also contain SOCS boxes, but differ from the SOCS proteins in the type of domain they contain upstream of the SOCS box. SOCS-4 (suppressor of cytokine signaling 4), also known as SOCS7, is a 440 amino acid protein that contains one SH2 domain and one SOCS box domain, the latter of which mediates interaction with the Elongin B/C complex. Involved in the pathway of protein modification, SOCS-4 exhibits E3 ubiquitin-protein ligase activity and functions to mediate the ubiquitination and subsequent proteasomal degradation of target proteins.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SOCS4 (human) mapping to 14q22.2; Socs4 (mouse) mapping to 14 C1.

## SOURCE

SOCS-4 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SOCS-4 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68828 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SOCS-4 (S-19) is recommended for detection of suppressor of cytokine signaling 4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SOCS-4 (S-19) is also recommended for detection of suppressor of cytokine signaling 4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SOCS-4 siRNA (h): sc-63050, SOCS-4 siRNA (m): sc-63051, SOCS-4 shRNA Plasmid (h): sc-63050-SH, SOCS-4 shRNA Plasmid (m): sc-63051-SH, SOCS-4 shRNA (h) Lentiviral Particles: sc-63050-V and SOCS-4 shRNA (m) Lentiviral Particles: sc-63051-V.

Molecular Weight of SOCS-4: 51 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **SOCS-4 (9J12): sc-135566**, our highly recommended monoclonal alternative to SOCS-4 (S-19).