

CSN3 (C-17): sc-47961

BACKGROUND

The COP9 signalosome (CSN) complex is involved in several different developmental and cellular processes. The complex is made up of several widely expressed proteins: CSN1 (COPS1), CSN2 (COPS2), CSN3 (COPS3), CSN4 (COPS4), CSN5 (COPS5), CSN6 (COP6), CSN7a (COPS7, COPS7a) or CSN7b (COP7b) and CSN8 (COP8). The CSN complex acts as a regulator for the ubiquitin conjugation pathway by mediating the deneddylation of the SCF-type E3 ligase complexes, which leads to a decrease in ubiquitin ligase activity of SCF-complexes. It is also involved in the phosphorylation of p53, c-Jun, IκBα and IRF-8, as well as CSN-dependent phosphorylation of p53, and c-Jun protects and promotes degradation by the Ubl system.

REFERENCES

1. Uhle, S., et al. 2003. Protein kinase CK2 and protein kinase D are associated with the COP9 signalosome. *EMBO J.* 22: 1302-1312.
2. Henriksen, J., et al. 2003. Amp TP53 for proteasome-mediated degradation. *Oncogene* 22: 5358-5361.

CHROMOSOMAL LOCATION

Genetic locus: COPS3 (human) mapping to 17p11.2; Cops3 (mouse) mapping to 11 B1.3.

SOURCE

CSN3 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CSN3 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-47961 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CSN3 (C-17) is recommended for detection of CSN3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

CSN3 (C-17) is also recommended for detection of CSN3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for CSN3 siRNA (h): sc-60457, CSN3 siRNA (m): sc-60458, CSN3 shRNA Plasmid (h): sc-60457-SH, CSN3 shRNA Plasmid (m): sc-60458-SH, CSN3 shRNA (h) Lentiviral Particles: sc-60457-V and CSN3 shRNA (m) Lentiviral Particles: sc-60458-V.

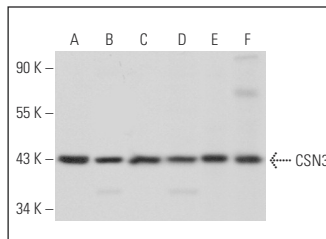
Molecular Weight of CSN3: 48 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, CSN3 (h): 293T Lysate: sc-370430 or mouse brain extract: sc-2253.

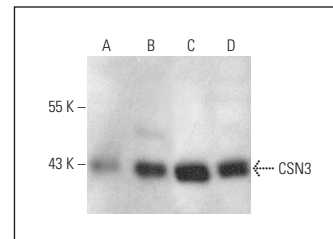
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



CSN3 (C-17): sc-47961. Western blot analysis of CSN3 expression in U-251-MG (A), HEK293 (B) and PC-12 (C) whole cell lysates, HeLa nuclear extract (D) and mouse brain (E) and mouse uterus (F) tissue extracts.



CSN3 (C-17): sc-47961. Western blot analysis of CSN3 expression in non-transfected 293T: sc-117752 (A), human CSN3 transfected 293T: sc-370430 (B), RD (C) and Jurkat (D) whole cell lysates.

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 or our catalog for detailed protocols and support products.



Try **CSN3 (RR12): sc-100693**, our highly recommended monoclonal alternative to CSN3 (C-17).