## 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, $1 \kappa B \alpha$ and IRF-8, as well as CSN-dependent phosphorylation of p53, and c-Jun protects and promotes degradation by the Ubl system.

## REFERENCES

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3. Hoareau Alves, K., Bochard, V., Réty, S. and Jalinot, P. 2002. Association of the mammalian proto-oncoprotein Int-6 with the three protein complexes eIF3, COP9 signalosome and 26S proteasome. FEBS lett. 527: 15-21.
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5. Uhle, S., Medalia, O., Waldron, R., Dumdey, R., Henklein, P., Bech-Otschir, D., Huang, X., Berse, M., Sperling, J., Schade, R. and Dubiel, W. 2003. Protein kinase CK2 and protein kinase D are associated with the COP9 signalosome. EMBO J. 22: 1302-1312.

## CHROMOSOMAL LOCATION

Genetic locus: COPS6 (human) mapping to 7q22.1; Cops6 (mouse) mapping to 5 G2.

## SOURCE

CSN6 ( $\mathrm{N}-18$ ) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CSN6 of human origin.

## PRODUCT

Each vial contains $200 \mu \mathrm{ggG}$ in 1.0 ml of PBS with $<0.1 \%$ sodium azide and $0.1 \%$ gelatin.

Blocking peptide available for competition studies, sc-47966 P, (100 $\mu \mathrm{g}$ peptide in 0.5 ml PBS containing $<0.1 \%$ sodium azide and $0.2 \% \mathrm{BSA})$.

## RESEARCH USE

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

## APPLICATIONS

CSN6 ( $\mathrm{N}-18$ ) is recommended for detection of CSN6 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).
CSN6 ( $\mathrm{N}-18$ ) is also recommended for detection of CSN6 in additional species, including equine, canine, bovine and porcine.
Suitable for use as control antibody for CSN6 siRNA (h): sc-60461, CSN6 siRNA (m): sc-60462, CSN6 shRNA Plasmid (h): sc-60461-SH, CSN6 shRNA Plasmid (m): sc-60462-SH, CSN6 shRNA (h) Lentiviral Particles: sc-60461-V and CSN6 shRNA (m) Lentiviral Particles: sc-60462-V.
Molecular Weight of CSN6: 34 kDa .
Positive Controls: HeLa whole cell lysate: sc-2200, SW480 cell lysate: sc-2219 or 3T3-L1 cell lysate: sc-2243.

## 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 MarkerTM 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: 1:1001:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz ${ }^{\text {TM }}$ Mounting Medium: sc-24941.

## STORAGE

Store at $4^{\circ} \mathrm{C},{ }^{* *}$ DO NOT FREEZE ${ }^{* *}$. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

Satisfation Guaranteed

Try CSN6 (B-1): sc-393023 or CSN6 (H-3): sc-137122, our highly recommended monoclonal alternatives to CSN6 (N-18).

