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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

CSN7b (m): 293T Lysate: sc-119485

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, I κ B α and IRF-8, as well as CSN-dependent phosphorylation of p53, and c-Jun protects and promotes degradation by the Ubl system. CSN7 is phosphorylated by CK2 and is composed of two subunits; α and β . CSN7a contains a PCI (proteasome CSN9 initiation factor 3) region, as well as a coiled-coil region and is predicted to interact with CSN2, CSN3, CSN4, CSN5, CSN6, CSN8, and GPS1. CSN7b contains only a PCI region and is predicted to interact with INT6.

REFERENCES

1. Seeger, M., et al. 1998. A novel protein complex involved in signal transduction possessing similarities to 26S proteasome subunits. *FASEB J.* 12: 469-478.
2. Wei, N., et al. 1998. The COP9 complex is conserved between plants and mammals and is related to the 26S proteasome regulatory complex. *Curr. Biol.* 8: 919-922.
3. Bech-Otschir, D., et al. 2001. COP9 signalosome-specific phosphorylation targets p53 to degradation by ubiquitin system. *EMBO J.* 20: 1630-1639.
4. Hoareau Alves, K., et al. 2002. Association of the complexes eIF3, COP9 signalosome and 26S proteasome. *FEBS Lett.* 527: 15-21.
5. Groisman, R., et al. 2003. The ubiquitin ligase activity in the DDB2 and regulated by the COP9 signalosome in response to DNA damage. *Cell* 113: 357-367.
6. Berse, M., et al. 2004. Ubiquitin-dependent degradation of Id1 and Id3 is mediated by the COP9 signalosome. *J. Mol. Biol.* 343: 361-370.
7. Gemmill, R.M., et al. 2005. Growth suppression induced by the TRC8 hereditary kidney cancer gene is dependent upon JAB1/CSN5. *Oncogene* 24: 3503-3511.

CHROMOSOMAL LOCATION

Genetic locus: Cops7b (mouse) mapping to 1 D.

PRODUCT

CSN7b (m): 293T Lysate represents a lysate of mouse CSN7b transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

CSN7b (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CSN7b antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.