

Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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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 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

SANTA CRUZ BIOTECHNOLOGY, INC.

PSMD2 (m2): 293T Lysate: sc-122820



BACKGROUND

In eukaryotic cells, selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S Proteasome. The 26S Proteasome is a protease complex that selectively breaks down proteins that have been modified by polyubiquitin chains. It is made up of two multisubunit complexes: the 20S Proteasome chamber, which serves as the proteolytic core of the complex, and two 19S regulatory particles which recognize and unfold ubiquitinated proteins. PSMD2 (proteasome (prosome, macropain) 26S sub-unit, non-ATPase 2), also known as S2, TRAP2 (tumor necrosis factor type 1 receptor-associated protein 2) or p97, is a regulatory component of the 26S Proteasome. It is expressed in skeletal muscle, brain, liver, placenta, kidney, pancreas, lung and heart. PSMD2 is one of the non-ATPase regulatory sub-units of the 19S regulator lid and is implicated in substrate recognition and binding.

REFERENCES

- Tsurumi, C., et al. 1996. cDNA cloning and functional analysis of the p97 subunit of the 26S Proteasome, a polypeptide identical to the type 1 tumornecrosis-factor-receptor-associated protein 2/55.11. Eur. J. Biochem. 239: 912-921.
- Hampton, R.Y., et al. 1996. Role of 26S Proteasome and HRD genes in the degradation of 3-hydroxy-3-methylglutaryl-CoA reductase, an integral endoplasmic reticulum membrane protein. Mol. Biol. Cell 7: 2029-2044.
- Wilkinson, C.R., et al. 1997. Mts4, a non-ATPase subunit of the 26S Protease in fission yeast is essential for mitosis and interacts directly with the ATPase subunit Mts2. J. Biol. Chem. 272: 25768-25777.
- 4. Dunbar, J.D., et al. 1997. Two-hybrid cloning of a gene encoding TNF receptor-associated protein 2, a protein that interacts with the intracellular domain of the type 1 TNF receptor: identity with subunit 2 of the 26S protease. J. Immunol. 158: 4252-4259.
- 5. Tan, Y., et al. 2006. Effects of tumor necrosis factor α on the 26S Proteasome and 19S regulator in skeletal muscle of severely scalded mice. J. Burn Care Res. 27: 226-233.
- Oberdorf, J., et al. 2006. Uncoupling proteasome peptidase and ATPase activities results in cytosolic release of an ER polytopic protein. J. Cell Sci. 119: 303-313.
- Stanhill, A., et al. 2006. An arsenite-inducible 19S regulatory particle-associated protein adapts proteasomes to proteotoxicity. Mol. Cell 23: 875-885.
- Deng, S., et al. 2007. Overexpression of genes and proteins of ubiquitin specific peptidases (USPs) and proteasome subunits (PSs) in breast cancer tissue observed by the methods of RFDD-PCR and proteomics. Breast Cancer Res. Treat. 104: 21-30.

CHROMOSOMAL LOCATION

Genetic locus: Psmd2 (mouse) mapping to 16 B1.

PRODUCT

PSMD2 (m2): 293T Lysate represents a lysate of mouse PSMD2 transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

APPLICATIONS

PSMD2 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PSMD2 antibodies. Recommended use: 10-20 μl 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° 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.