SANTA CRUZ BIOTECHNOLOGY, INC.

DENR (m): 293T Lysate: sc-119746

BACKGROUND

DENR (density-regulated protein), also designated DRP or smooth muscle cell-associated protein 3 (SMAP-3), is a 198 amino acid protein whose expression increases when cells are present in high densities. It has also been shown that DENR expression does not increase during growth arrest. DENR is found in a variety of tissues with highest levels present in skeletal and cardiac muscle. DENR was also found at higher levels in cells expressing the neu proto-oncogene. DENR contains one SUI1 domain and interacts with MCTS1. The SUI1 domain contains sequence similarity to the budding yeast protein SUI1, which is a translation-initiation factor that directs the ribosome to the appropriate translation start site.

REFERENCES

1. Deyo, J.E., Chiao, P.J. and Tainsky, M.A. 1998. DRP, a novel protein expressed at high cell density but not during growth arrest. DNA Cell Biol. 17: 437-447.
2. Oh, J.J., Grosshans, D.R., Wong, S.G. and Slamon, D.J. 1999. Identification of differentially expressed genes associated with HER-2/neu overexpression in human breast cancer cells. Nucleic Acids Res. 27: 4008-4017.
3. Online Mendelian Inheritance in Man, OMIM™. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 604550. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
4. Reinert, L.S., Shi, B., Nandi, S., Mazan-Mamczarz, K., Vitolo, M., Bachman, K.E., He, H. and Gartenhaus, R.B. 2006. MCT-1 protein interacts with the cap complex and modulates messenger RNA translational profiles. Cancer Res. 66: 8994-9001.
5. Mazan-Mamczarz, K. and Gartenhaus, R.B. 2007. Post-transcriptional control of the MCT1-associated protein DENR/DRP by RNA-binding protein AUF1. Cancer Genomics Proteomics 4: 233-239.

CHROMOSOMAL LOCATION

Genetic locus: Denr (mouse) mapping to 5 F.

PRODUCT

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

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.

APPLICATIONS

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

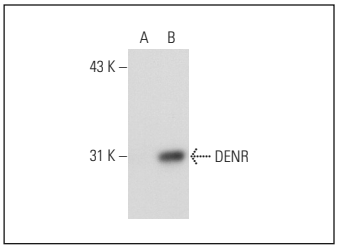
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DENR (NQ-B8): sc-134315 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse DENR expression in DENR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



DENR (NQ-B8): sc-134315. Western blot analysis of DENR expression in non-transfected: sc-117752 (**A**) and mouse DENR transfected: sc-119746 (**B**) 293T whole cell lysates.

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.