# VPS28 (m): 293T Lysate: sc-124578



The Power to Question

### **BACKGROUND**

Vacuolar protein sorting protein 28 (VPS28) is required for normal endocytic and biosynthetic trafficking to the vacuole. VPS28 mutants accumulate vacuolar endocytic and late Golgi markers in an abberant endosome-like class E compartment. Class E compartments contain endocytosed markers, as well as precursors of vacuolar hydrolases and markers normally associated with the *trans* Golgi. VPS28 as well as other class E VPS proteins may facilitate the formation of transport intermediates required for efficient transport out of the prevacuolar endosome. Class E proteins appear to be important for sorting material bound for the vacuole away from proteins that cycle through the endocytic system. VPS28 of *Saccharomyces cerevisiae* and its human ortholog localize to the cytoplasm and can be found as subunits of a complex named ESCRT-1, endosomal sorting complex required for transport 1.

### **REFERENCES**

- Rieder, S.E., Banta, L.M., Kohrer, K., McCaffery, J.M. and Emr, S.D. 1996.
  Multilamellar endosome-like compartment accumulates in the yeast Vps28 vacuolar protein sorting mutant. Mol. Biol. Cell 7: 985-999.
- 2. Bishop, N. and Woodman, P. 2001. TSG101/mammalian VPS23 and mammalian VPS28 interact directly and are recruited to VPS4-induced endosomes. J. Biol. Chem. 276: 11735-11742.
- Hanson, P.K., Grant, A.M. and Nichols, J.W. 2002. NBD-labeled phosphatidylcholine enters the yeast vacuole via the pre-vacuolar compartment. J. Cell Sci. 115: 2725-2733.
- Katzmann, D.J., Babst, M. and Emr, S.D. 2001. Ubiquitin-dependent sorting into the multivesicular body pathway requires the function of a conserved endosomal protein sorting complex, ESCRT-I. Cell 106: 145-155.
- 5. SWISS-PROT/TrEMBL (Q02767). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html.

## **CHROMOSOMAL LOCATION**

Genetic locus: Vps28 (mouse) mapping to 15 D3.

#### **PRODUCT**

VPS28 (m): 293T Lysate represents a lysate of mouse VPS28 transfected 293T cells and is provided as  $100 \mu g$  protein in  $200 \mu l$  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**

VPS28 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive VPS28 antibodies. Recommended use: 10-20 µl per lane.

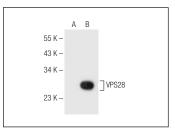
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

VPS28 (B-2): sc-376337 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse VPS28 expression in VPS28 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-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### **DATA**



VPS28 (B-2): sc-376337. Western blot analysis of VPS28 expression in non-transfected: sc-117752 (A) and mouse VPS28 transfected: sc-124578 (B) 293T whole cell Ivsates

#### **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.

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