VPS28 (E-7): sc-166537

BACKGROUND
Vacular 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 hydrodases 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

CHROMOSOMAL LOCATION
Genetic locus: VPS28 (human) mapping to 8q24.3; Vps28 (mouse) mapping to 15 D3.

SOURCE
VPS28 (E-7) is a mouse monoclonal antibody raised against amino acids 1-221 representing full length VPS28 of human origin.

PRODUCT
Each vial contains 200 µg IgG; kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

VPS28 (E-7) is available conjugated to agarose (sc-166537 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166537 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocerythrin (sc-166537 PE), fluorescein (sc-166537 FITC), Alexa Fluor® 488 (sc-166537 AF488), Alexa Fluor® 546 (sc-166537 AF546), Alexa Fluor® 594 (sc-166537 AF594) or Alexa Fluor® 647 (sc-166537 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC(M); and to either Alexa Fluor® 680 (sc-166537 AF680) or Alexa Fluor® 790 (sc-166537 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC(M).

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STORAGE
Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS
VPS28 (E-7) is recommended for detection of VPS28 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:10, dilution range 1:30-1:3000).


Molecular Weight of VPS28: 28 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214, MCF7 whole cell lysate: sc-2206 or A549 cell lysate: sc-2413.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP: sc-516102 or m-IgG HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:100000), Cruz Marker® Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
4) Immunohistochemistry: use m-IgG HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086 or Organo/Limonene Mount: sc-45087.

DATA

SELECT PRODUCT CITATIONS

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