SANTA CRUZ BIOTECHNOLOGY, INC.

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 aberrant 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.

CHROMOSOMAL LOCATION

Genetic locus: VPS28 (human) mapping to Bq24.3; 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 IgG1 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 phycoerythrin (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 FCM; 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 FCM.

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 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for VPS28 siRNA (h): sc-41100, VPS28 siRNA (m): sc-41101, VPS28 shRNA Plasmid (h): sc-41100-SH, VPS28 shRNA Plasmid (m): sc-41101-SH, VPS28 shRNA (h) Lentiviral Particles: sc-41100-V and VPS28 shRNA (m) Lentiviral Particles: sc-41101-V.

Molecular Weight of VPS28: 28 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGx BP-HRP: sc-516102 or m-IgGx BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-2041 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz™ Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGx BP-HP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA

SELECT PRODUCT CITATIONS


STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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.