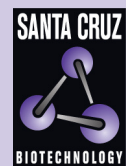


# VPS11 (C-12): sc-515094



The Power to Question

## BACKGROUND

Vacuolar sorting proteins (VPSs) are required for proper trafficking of endocytic and biosynthetic proteins to the vacuole and play an important role in the budding process of cells. VPS11 (vacuolar protein sorting 11), also known as END1, PEP5, RNF108 or PP3476, localizes to the membrane of both the endosome and the lysosome and is the human homolog of yeast Vsp11. Expressed ubiquitously with highest expression in heart, VPS11 is thought to play a role in vesicle-mediated protein trafficking, as well as fusion/docking reactions in late endosomes and lysosomes. VPS11 contains one clathrin repeat and one RING-type zinc finger and shares 24% amino acid identity with its yeast counterpart.

## REFERENCES

1. Wurmser, A.E., et al. 2000. New component of the vacuolar class C-Vps complex couples nucleotide exchange on the Ypt7 GTPase to SNARE-dependent docking and fusion. *J. Cell Biol.* 151: 551-562.
2. Sato, T.K., et al. 2000. Class C Vps protein complex regulates vacuolar SNARE pairing and is required for vesicle docking/fusion. *Mol. Cell Biol.* 20: 661-671.
3. Kim, B.Y., et al. 2001. Molecular characterization of mammalian homologues of class C Vps proteins that interact with syntaxin-7. *J. Biol. Chem.* 276: 29393-29402.
4. Peterson, M.R. and Emr, S.D. 2001. The class C Vps complex functions at multiple stages of the vacuolar transport pathway. *Traffic* 2: 476-486.
5. Huizing, M., et al. 2001. Molecular cloning and characterization of human VPS18, VPS 11, VPS16, and VPS33. *Gene* 264: 241-247.

## CHROMOSOMAL LOCATION

Genetic locus: VPS11 (human) mapping to 11q23.3; Vps11 (mouse) mapping to 9 A5.2.

## SOURCE

VPS11 (C-12) is a mouse monoclonal antibody raised against amino acids 481-780 mapping within an internal region of VPS11 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

VPS11 (C-12) is available conjugated to agarose (sc-515094 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515094 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515094 PE), fluorescein (sc-515094 FITC), Alexa Fluor® 488 (sc-515094 AF488), Alexa Fluor® 546 (sc-515094 AF546), Alexa Fluor® 594 (sc-515094 AF594) or Alexa Fluor® 647 (sc-515094 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515094 AF680) or Alexa Fluor® 790 (sc-515094 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

VPS11 (C-12) is recommended for detection of VPS11 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for VPS11 siRNA (h): sc-76900, VPS11 siRNA (m): sc-76901, VPS11 shRNA Plasmid (h): sc-76900-SH, VPS11 shRNA Plasmid (m): sc-76901-SH, VPS11 shRNA (h) Lentiviral Particles: sc-76900-V and VPS11 shRNA (m) Lentiviral Particles: sc-76901-V.

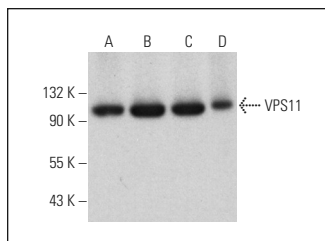
Molecular Weight of VPS11: 108 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

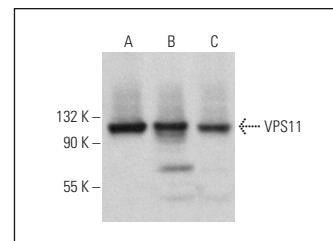
## RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



VPS11 (C-12): sc-515094. Western blot analysis of VPS11 expression in HeLa nuclear extract (A), K-562 (B) and Jurkat (C) whole cell lysates and human brain tissue extract (D).



VPS11 (C-12): sc-515094. Western blot analysis of VPS11 expression in NAMALWA (A), 3611-RF (B) and SP2/0 (C) whole cell lysates.

## 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](http://www.scbt.com) for detailed protocols and support products.