

VPS29 (H-182): sc-98611

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. VPS29 (vacuolar protein sorting 29 homolog), also known as DC7, DC15 or PEP11, is a 182 amino acid peripheral membrane protein that localizes to both the cytoplasm and to the endosomal membrane and exists as a component of a large multimeric retromer complex. VPS29 is expressed at high levels in heart, lung, placenta, spleen, peripheral blood leukocytes, thymus, colon skeletal muscle, kidney and brain, where it plays an important role in retrograde transport of proteins from endosomes to the *trans*-Golgi network. Multiple isoforms of VPS29 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VPS29 (human) mapping to 12q24.11; Vps29 (mouse) mapping to 5 F.

SOURCE

VPS29 (H-182) is a rabbit polyclonal antibody raised against amino acids 1-179 mapping at the N-terminus of VPS29 of human origin.

PRODUCT

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

APPLICATIONS

VPS29 (H-182) is recommended for detection of VPS29 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

VPS29 (H-182) is also recommended for detection of VPS29 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for VPS29 siRNA (h): sc-76903, VPS29 siRNA (m): sc-76904, VPS29 shRNA Plasmid (h): sc-76903-SH, VPS29 shRNA Plasmid (m): sc-76904-SH, VPS29 shRNA (h) Lentiviral Particles: sc-76903-V and VPS29 shRNA (m) Lentiviral Particles: sc-76904-V.

Molecular Weight of VPS29: 20 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.



Try **VPS29 (D-1): sc-398874**, our highly recommended monoclonal alternative to VPS29 (H-182).