VPS16 (C-17): sc-86939

**BACKGROUND**

Vacular 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. The VPS proteins are highly conserved in mammal, yeast and *Drosophila*. VPS16 (vacuolar protein sorting 16) is a 839 amino acid protein that localizes to the cytoplasmic side of membranes and is ubiquitously expressed. Existing as a component of the Class C VPS protein complex along with VPS11, VPS18 and VPS33, VPS16 is thought to play a role in membrane docking/fusion reactions of late endosomes/lysosomes and may also participate in vesicle-mediated protein trafficking to lysosomal compartments. Mutations in the gene encoding VPS16 may disrupt trafficking to lysosomes and lysosome-related organelles that can potentially cause multiple diseases, including Hermansky-Pudlak syndrome.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: VPS16 (human) mapping to 20p13; Vps16 (mouse) mapping to 2 F1.

**SOURCE**

VPS16 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of VPS16 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.

Blocking peptide available for competition studies, sc-86939 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

VPS16 (C-17) is recommended for detection of VPS16 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); non cross-reactive with other VPS family members.

VPS16 (C-17) is also recommended for detection of VPS16 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for VPS16 siRNA (h): sc-76902, VPS16 siRNA (m): sc-155218, VPS16 shRNA Plasmid (h): sc-76902-SH, VPS16 shRNA Plasmid (m): sc-155218-SH, VPS16 shRNA (h) Lentiviral Particles: sc-76902-V and VPS16 shRNA (m) Lentiviral Particles: sc-155218-V.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HPR: sc-2020 (dilution range: 1:2000-1:5000); 2) Immuno precipitation: use Protein A/G PLUS-Agarose: sc-2003 (dilution range: 1:100-1:5000); 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2033 (dilution range: 1:100-1:500) and donkey anti-goat IgG-TR: sc-2033 (dilution range: 1:100-1:400).

**DATA**

VPS16 (C-17) sc-86939. Western blot analysis of VPS16 expression in non-transfected 293T: sc-117752 (A), mouse VPS16 transfected 293T: sc-127767 (B), Jurkat (C), HuT 78 (D) and AML-193 (E) 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.