

VPS39 (S-14): sc-104761

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. VPS39 (vacuolar protein sorting 39), also known as VAM6 or TLP, is an 886 amino acid protein that localizes to the cytoplasm, as well as to the lysosomal and endosomal membrane, and contains one CNH domain. Expressed ubiquitously with highest expression in kidney, heart, lung, brain, placenta and skeletal muscle, VPS39 functions as a homooligomer that is thought to play a role in the clustering and fusion of endosomes and lysosomes. Multiple isoforms of VPS39 exist due to alternative splicing events. The gene encoding VPS39 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome.

CHROMOSOMAL LOCATION

Genetic locus: VPS39 (human) mapping to 15q15.1; Vps39 (mouse) mapping to 2 E5.

SOURCE

VPS39 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of VPS39 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-104761 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

VPS39 (S-14) is recommended for detection of VPS39 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), 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).

VPS39 (S-14) is also recommended for detection of VPS39 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for VPS39 siRNA (h): sc-90114, VPS39 siRNA (m): sc-106699, VPS39 shRNA Plasmid (h): sc-90114-SH, VPS39 shRNA Plasmid (m): sc-106699-SH, VPS39 shRNA (h) Lentiviral Particles: sc-90114-V and VPS39 shRNA (m) Lentiviral Particles: sc-106699-V.

Molecular Weight (predicted) of VPS39: 102 kDa.

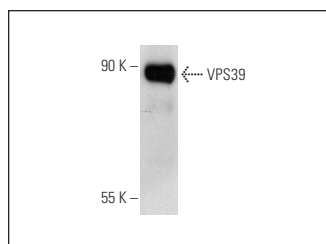
Molecular Weight (observed) of VPS39: 88 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285 or mouse heart extract: sc-2254.

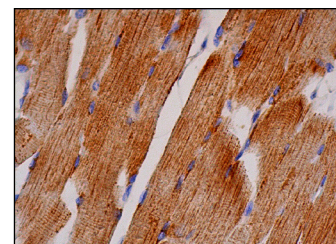
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



VPS39 (S-14): sc-104761. Western blot analysis of VPS39 expression in mouse heart tissue extract.



VPS39 (S-14): sc-104761. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skeletal muscle tissue showing cytoplasmic staining of myocytes.

SELECT PRODUCT CITATIONS

- Liu, X., et al. 2011. Merkel cell polyomavirus large T antigen disrupts lysosome clustering by translocating human Vam6p from the cytoplasm to the nucleus. *J. Biol. Chem.* 286: 17079-17090.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **VPS39 (C-5): sc-514762**, our highly recommended monoclonal alternative to VPS39 (S-14).