

# VPS53 (N-16): sc-109144

## 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. VPS53 (vacuolar protein sorting 53), also known as PP13624 or HCCS1, is a 699 amino acid protein that localizes to both the Golgi apparatus and the endosome membrane and belongs to the VPS family. Expressed as multiple alternatively spliced isoforms, VPS53 functions as a component of the multi-protein Golgi-associated retrograde protein (GARP) complex and is thought to be involved in retrograde transport of early and late endosomes to the Golgi. The gene encoding VPS53 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: VPS53 (human) mapping to 17p13.3; Vps53 (mouse) mapping to 11 B4.

## SOURCE

VPS53 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of VPS53 of human origin.

## RESEARCH USE

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

## 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-109144 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

VPS53 (N-16) is recommended for detection of VPS53 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

Suitable for use as control antibody for VPS53 siRNA (h): sc-93834, VPS53 siRNA (m): sc-155222, VPS53 shRNA Plasmid (h): sc-93834-SH, VPS53 shRNA Plasmid (m): sc-155222-SH, VPS53 shRNA (h) Lentiviral Particles: sc-93834-V and VPS53 shRNA (m) Lentiviral Particles: sc-155222-V.

Molecular Weight of VPS53 isoforms: 80/76/94 kDa.

## 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) 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.

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



Try **VPS53 (H-4): sc-514920**, our highly recommended monoclonal alternative to VPS53 (N-16).