10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VPS53 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8546a

Specification

VPS53 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q5VIR6

VPS53 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 55275

Other Names
Vacuolar protein sorting-associated protein 53 homolog, VPS53

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8546a was selected from the N-term region of human VPS53. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VPS53 Antibody (N-term) Blocking Peptide - Protein Information

Name VPS53

Function
Acts as a component of the GARP complex that is involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN). The GARP complex is required for the maintenance of the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD (PubMed:15878329, PubMed:18367545). Acts as a component of the EARP complex that is involved in endocytic recycling. The EARP complex associates with Rab4-positive endosomes and promotes recycling of internalized transferrin receptor (TFRC) to the plasma membrane (PubMed:25799061).

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Recycling endosome. Note=Localizes to the trans-Golgi network as part of the GARP complex, while it localizes to recycling endosomes as part of the EARP complex (PubMed:25799061)

VPS53 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

VPS53 Antibody (N-term) Blocking Peptide - Images

VPS53 Antibody (N-term) Blocking Peptide - Background

VPS53 is a protein with sequence similarity to the yeast Vps53p protein. Vps53p is involved in retrograde vesicle trafficking in late Golgi.

VPS53 Antibody (N-term) Blocking Peptide - References

Ko,J.K., et.al., J. Cell. Sci. 120 (PT 16), 2912-2923 (2007)Zhu,J.D., et.al., Cell Res. 16 (9), 780-796 (2006)