

VPS53 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8546a

Specification

VPS53 Antibody (N-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	<u>Q5VIR6</u>
Other Accession	<u>Q8CCB4</u> , <u>Q5ZLD7</u>
Reactivity	Human, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	94405
Antigen Region	111-140

VPS53 Antibody (N-term) - Additional Information

Gene ID 55275

Other Names

Vacuolar protein sorting-associated protein 53 homolog, VPS53

Target/Specificity

This VPS53 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-140 amino acids from the N-terminal region of human VPS53.

Dilution

FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

VPS53 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

VPS53 Antibody (N-term) - 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](#)).

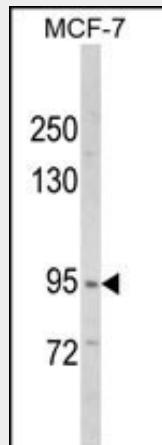
Cellular Location

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)

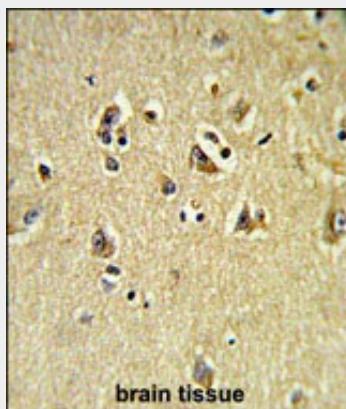
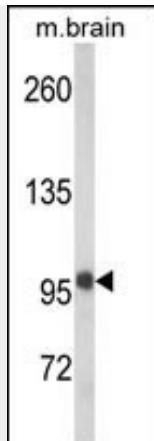
VPS53 Antibody (N-term) - Protocols

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

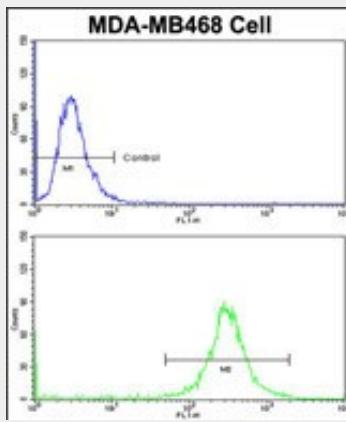
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

VPS53 Antibody (N-term) - Images

Western blot analysis of VPS53 Antibody (N-term) (Cat. #AP8546a) in MCF-7 cell line lysates (35ug/lane). VPS53 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with VPS53 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of MDA-MB468 cells using VPS53 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

VPS53 Antibody (N-term) - 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) - 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)