

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

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**VPS53 Antibody (N-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q5VIR6</a>
Other Accession	<a href="#">Q8CCB4</a> , <a href="#">Q5ZLD7</a>
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**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**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

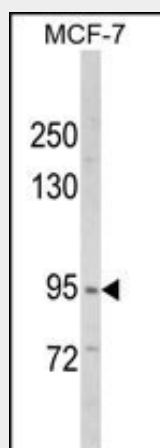
Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome membrane; Peripheral membrane protein. Recycling endosome. Note=Localizes to the trans-Golgi network as part of the GARP complex, while it localizes to recycling endosomes as part of the EARP complex (PubMed:25799061)

### VP53 Antibody (N-term) - Protocols

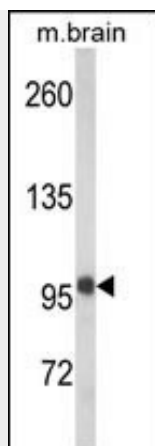
Provided below are standard protocols that you may find useful for product applications.

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

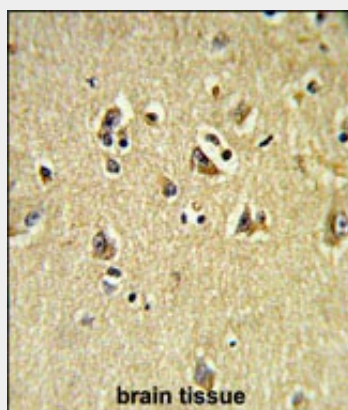
### VP53 Antibody (N-term) - Images



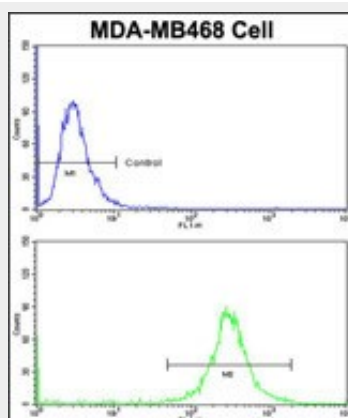
Western blot analysis of VP53 Antibody (N-term) (Cat. #AP8546a) in MCF-7 cell line lysates (35ug/lane). VP53 (arrow) was detected using the purified Pab.



Western blot analysis of VPS53 Antibody (N-term) (Cat. #AP8546a) in mouse brain tissue 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)