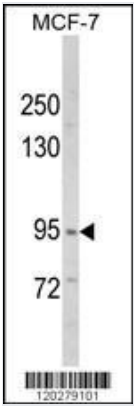
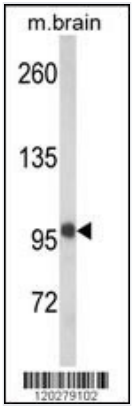
Vacuolar Protein Sorting 53 (VPS53) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

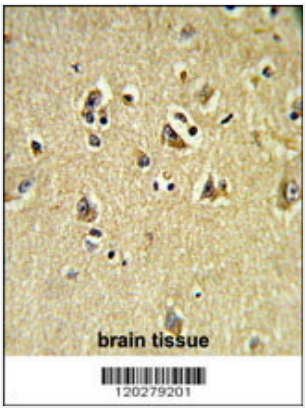
Product Name	Vacuolar Protein Sorting 53 (VPS53), Polyclonal Antibody
Full Product Name	Vacuolar Protein Sorting 53, NT (FLJ10979, HCCS1, hVps53L, MGC39512, pp13624, PP13624, Vacuolar protein sorting-associated protein 53 homolog) (PE)
Product Gene Name	anti-VPS53 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human VPS53. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	79.653
OMIM	gene 615851
3D Structure	ModBase 3D Structure for Q5VIR6
Immunogen	Synthetic peptide selected from the N-terminal region of human VPS53 (KLH).
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-VPS53 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-VPS53 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-VPS53 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-VPS53 antibody	MBS6505442 is an antibody targeting VPS53. Also known as Vacuolar Protein Sorting 53, NT (FLJ10979, HCCS1, hVps53L, MGC39512, pp13624, PP13624, Vacuolar protein sorting-associated protein 53 homolog) (PE). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-VPS53 antibody	1. Ko, J.K., et.al., J. Cell. Sci. 120(PT 16), 2912-2923 (2007). 2. Zhu, J.D., et.al., Cell Res. 16(9), 780-796 (2006).
Other Notes	Small volumes of anti-VPS53 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



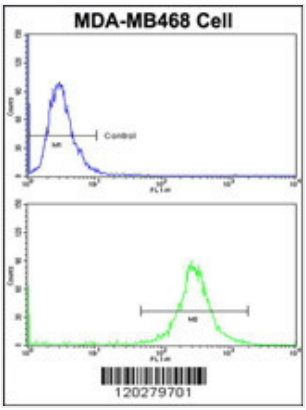
Western Blot (WB) of anti-VPS53 antibody
Western blot analysis of VPS53 Antibody (N-term) in MCF-7 cell line lysates (35ug/lane). VPS53 (arrow) was detected using the purified Pab.



Western Blot (WB) of anti-VPS53 antibody
Western blot analysis of VPS53 Antibody (N-term) in mouse brain tissue lysates (35ug/lane). VPS53 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-VPS53 antibody
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 Cytometry (FC/FACS) of anti-VPS53 antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VPS53. It may not necessarily be applicable to this product.

NCBI GI #	21361728
NCBI GeneID	55275
NCBI Accession #	NP_060759
UniProt Primary Accession #	Q5VIR6
UniProt Related Accession #	Q5VIR6
GenBank Nucleotide #	NP_060759.2
NCBI Official Full Name	vacuolar protein sorting-associated protein 53 homolog isoform 2
NCBI Official Synonym Full Names	VPS53 subunit of GARP complex
NCBI Official Symbol	VPS53
NCBI Official Synonym Symbols	HCCS1; PCH2E; hVps53L; pp13624
UniProt Protein Name	Vacuolar protein sorting-associated protein 53 homolog
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	VPS53

UniProt Entry Name	VPS53_HUMAN
NCBI Protein Information	vacuolar protein sorting-associated protein 53 homolog
NCBI Summary for VPS53	This gene encodes a protein with sequence similarity to the yeast Vps53p protein. Vps53p is involved in retrograde vesicle trafficking in late Golgi. [provided by RefSeq, Jul 2008]
UniProt Comments for VPS53	VPS53: May be involved in retrograde transport of early and late endosomes to the late Golgi. 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. Belongs to the VPS53 family. 4 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 17p13.3 Cellular Component: Golgi apparatus; perinuclear region of cytoplasm; endosome membrane Molecular Function: protein binding Biological Process: protein transport; retrograde transport, endosome to Golgi Disease: Pontocerebellar Hypoplasia, Type 2e
Research Articles on VPS53	**1.** sensitivity of serum Hepatocellular carcinoma suppressor 1 (HCCS1) promoter methylation for discriminating patients with hepatocellular carcinoma from chronic hepatitis B was 62.5%
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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