

VPS52 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10925b

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	Q8N1B4
Other Accession	O55166 , Q8C754 , NP_072047.4
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25452
Calculated MW	82221
Antigen Region	610-637

Additional Information

Gene ID	6293
Other Names	Vacuolar protein sorting-associated protein 52 homolog, SAC2 suppressor of actin mutations 2-like protein, VPS52, SACM2L
Target/Specificity	This VPS52 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 610-637 amino acids from the C-terminal region of human VPS52.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	VPS52 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	VPS52
Synonyms	SACM2L

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)

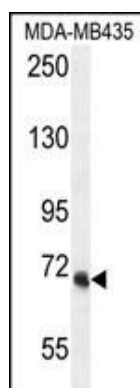
Background

This gene encodes a protein that is similar to the yeast suppressor of actin mutations 2 gene. The yeast protein forms a subunit of the tetrameric Golgi-associated retrograde protein complex that is involved in vesicle trafficking from from both early and late endosomes, back to the trans-Golgi network. This gene is located on chromosome 6 in a head-to-head orientation with the gene encoding ribosomal protein S18.

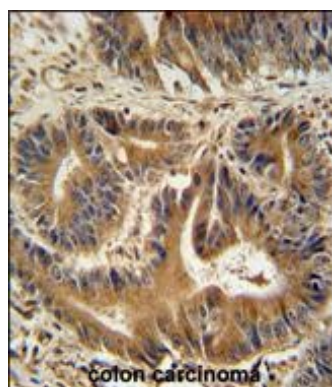
References

Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) : Perez-Victoria, F.J., et al. Mol. Cell. Biol. 29(19):5251-5263(2009) Perez-Victoria, F.J., et al. Mol. Biol. Cell 19(6):2350-2362(2008) Liewen, H., et al. Exp. Cell Res. 306(1):24-34(2005) Mungall, A.J., et al. Nature 425(6960):805-811(2003)

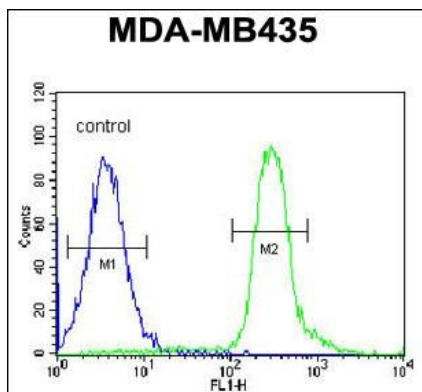
Images



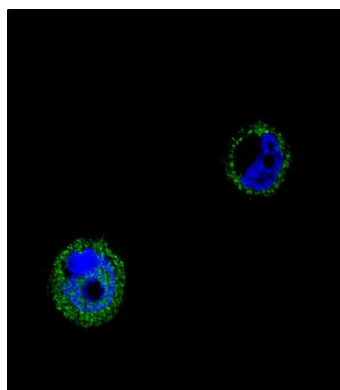
VPS52 Antibody (C-term) (Cat. #AP10925b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the VPS52 antibody detected the VPS52 protein (arrow).



VPS52 antibody (C-term) (Cat. #AP10925b) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the VPS52 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



VPS52 Antibody (C-term) (Cat. #AP10925b) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Confocal immunofluorescent analysis of VPS52 Antibody (C-term) (Cat#AP10925b) with MCF-7 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.