

VPS54 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12936c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9P1Q0
Other Accession	Q9JMK8 , NP_001005739.1
Reactivity	Human, Rat, Mouse
Predicted	Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28529
Calculated MW	110589
Antigen Region	465-491

Additional Information

Gene ID	51542
Other Names	Vacuolar protein sorting-associated protein 54, Hepatocellular carcinoma protein 8, Tumor antigen HOM-HCC-8, Tumor antigen SLP-8p, VPS54, HCC8
Target/Specificity	This VPS54 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 465-491 amino acids from the Central region of human VPS54.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	VPS54 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	VPS54
Synonyms	HCC8

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: 18367545). Within the GARP complex, required to tether the complex to the TGN. Not involved in endocytic recycling (PubMed: 25799061).
Cellular Location	Golgi apparatus, trans-Golgi network. Membrane {ECO:0000250 UniProtKB:Q9JMK8}. Note=Associates with membranes in an EIPR1-independent manner. {ECO:0000250 UniProtKB:Q9JMK8}

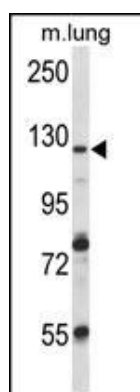
Background

This gene encodes for a protein that in yeast forms part of a trimeric vacuolar-protein-sorting complex that is required for retrograde transport of proteins from prevacuoles to the late Golgi compartment. As in yeast, mammalian Vps54 proteins contain a coiled-coil region and dileucine motifs. Alternative splicing results in multiple transcript variants encoding different isoforms

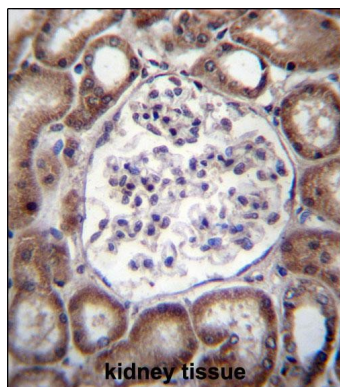
References

Perez-Victoria, F.J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(29):12860-12865(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Perez-Victoria, F.J., et al. Mol. Cell. Biol. 29(19):5251-5263(2009)
Meisler, M.H., et al. Amyotroph Lateral Scler 9(3):141-148(2008)
Perez-Victoria, F.J., et al. Mol. Biol. Cell 19(6):2350-2362(2008)

Images



VPS54 Antibody (Center) (Cat. #AP12936c) western blot analysis in mouse lung tissue lysates (35ug/lane). This demonstrates the VPS54 antibody detected the VPS54 protein (arrow).



VPS54 Antibody (Center) (Cat. #AP12936c) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of VPS54 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.