

PIK3R4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13309c

Product Information

Application	WB, E
Primary Accession	Q99570
Other Accession	NP_055417.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33300
Calculated MW	153103
Antigen Region	819-847

Additional Information

Gene ID	30849
Other Names	Phosphoinositide 3-kinase regulatory subunit 4, PI3-kinase regulatory subunit 4, PI3-kinase p150 subunit, Phosphoinositide 3-kinase adaptor protein, PIK3R4
Target/Specificity	This PIK3R4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 819-847 amino acids from the Central region of human PIK3R4.
Dilution	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 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	PIK3R4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PIK3R4
Synonyms	VPS15 {ECO:0000303 PubMed:23878393}

Function	Regulatory subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed: 20643123).
Cellular Location	Late endosome. Cytoplasmic vesicle, autophagosome. Membrane; Lipid-anchor. Note=As component of the PI3K complex I localized to pre-autophagosome structures. As component of the PI3K complex II localized predominantly to endosomes. Localizes also to discrete punctae along the ciliary axoneme (By similarity) {ECO:0000250 UniProtKB:Q8VD65, ECO:0000305}
Tissue Location	Ubiquitously expressed.

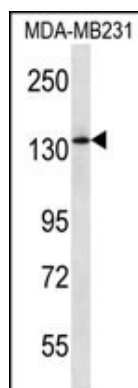
Background

Regulatory subunit of the PI3K complex. May regulate membrane trafficking late in the endocytic pathway.

References

Matsunaga, K., et al. Nat. Cell Biol. 11(4):385-396(2009)
Yan, Y., et al. Biochem. J. 417(3):747-755(2009)
Jin, J., et al. Curr. Biol. 14(16):1436-1450(2004)
Takeshita, F., et al. Semin. Immunol. 16(1):17-22(2004)
Ligon, L.A., et al. Mol. Biol. Cell 14(4):1405-1417(2003)

Images



PIK3R4 Antibody (Center) (Cat. #AP13309c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the PIK3R4 antibody detected the PIK3R4 protein (arrow).

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