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PIK3R4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13309c

Specification

PIK3R4 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q99570
Other Accession	NP_055417.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**153103**
Antigen Region	**819-847**

PIK3R4 Antibody (Center) - 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

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.

PIK3R4 Antibody (Center) - 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}

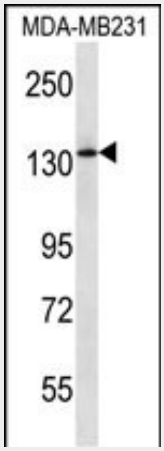
Tissue Location
Ubiquitously expressed.

PIK3R4 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PIK3R4 Antibody (Center) - 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).

PIK3R4 Antibody (Center) - Background

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

PIK3R4 Antibody (Center) - 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)