

PIK3R4 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13309c

Specification

PIK3R4 Antibody (Center) Blocking peptide - Product Information

Primary Accession [Q99570](#)

PIK3R4 Antibody (Center) Blocking peptide - 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

The synthetic peptide sequence used to generate the antibody AP13309c was selected from the Center region of PIK3R4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PIK3R4 Antibody (Center) Blocking peptide - 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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PIK3R4 Antibody (Center) Blocking peptide - Images**PIK3R4 Antibody (Center) Blocking peptide - Background**

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

PIK3R4 Antibody (Center) Blocking peptide - 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)