

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

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**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:&lt;a href="http://www.uniprot.org/citations/20643123" target="\_blank"&gt;20643123&lt;/a&gt;).

**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)