

**PI3KR5 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8027c****Specification**

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**PI3KR5 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8WYR1](#)**PI3KR5 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 23533

**Other Names**

Phosphoinositide 3-kinase regulatory subunit 5, PI3-kinase regulatory subunit 5, PI3-kinase p101 subunit, Phosphatidylinositol 4, 5-bisphosphate 3-kinase regulatory subunit, PtdIns-3-kinase regulatory subunit, Protein FOAP-2, PtdIns-3-kinase p101, p101-PI3K, PIK3R5

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8027c](/product/products/AP8027c) was selected from the Center region of human PI3KR5. 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.

**PI3KR5 Antibody (Center) Blocking Peptide - Protein Information**

Name PIK3R5

**Function**

Regulatory subunit of the PI3K gamma complex. Required for recruitment of the catalytic subunit to the plasma membrane via interaction with beta-gamma G protein dimers. Required for G protein-mediated activation of PIK3CG (By similarity).

**Cellular Location**

Nucleus {ECO:0000250|UniProtKB:O02696}. Cytoplasm {ECO:0000250|UniProtKB:O02696}. Cell membrane {ECO:0000250|UniProtKB:O02696}; Peripheral membrane protein {ECO:0000250|UniProtKB:O02696}. Note=Predominantly localized in the nucleus in absence of PIK3CG/p120. Colocalizes with PIK3CG/p120 in the cytoplasm. Translocated to the plasma membrane in a beta-gamma G protein-dependent manner. {ECO:0000250|UniProtKB:O02696}

**Tissue Location**

Ubiquitously expressed with high expression in fetal brain compared to adult brain. Abundant expression is observed in cerebellum, cerebral cortex, cerebral meninges, and vermis cerebelli

**PI3KR5 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PI3KR5 Antibody (Center) Blocking Peptide - Images****PI3KR5 Antibody (Center) Blocking Peptide - Background**

PI3KR5 is a regulatory subunit of the PI3K gamma complex. This protein, which interacts with G beta gamma proteins, is a heterodimer of a catalytic subunit (PI3KCG/p120) and a regulatory (PI3KR5a/p101) subunit.

**PI3KR5 Antibody (Center) Blocking Peptide - References**

Brock, C., et al., J. Cell Biol. 160(1):89-99 (2003).