

**PIK3R5 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11544b****Specification**

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**PIK3R5 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q8WYR1](#)**PIK3R5 Antibody (C-term) 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

**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.

**PIK3R5 Antibody (C-term) 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

**PIK3R5 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**PIK3R5 Antibody (C-term) Blocking peptide - Images****PIK3R5 Antibody (C-term) Blocking peptide - Background**

Receptor-regulated class I phosphoinositide 3-kinases (PI3Ks) phosphorylate the membrane lipid phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P<sub>2</sub>) to PtdIns(3,4,5)P<sub>3</sub>, which in turn recruits and activates cytosolic effectors involved in proliferation, survival, or chemotaxis. PIK3R5 is a PI3K regulatory subunit (Brock et al., 2003 [PubMed 12507995]).

**PIK3R5 Antibody (C-term) Blocking peptide - References**

Rose, J. Phd, et al. Mol. Med. (2010) In press : Segat, L., et al. Vaccine 28(10):2201-2206(2010) Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Johnson, C., et al. Oncogene 26(49):7049-7057(2007) Suire, S., et al. Curr. Biol. 15(6):566-570(2005)