

PI3KR2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8024a**Specification**

PI3KR2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O00459](#)**PI3KR2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 5296**Other Names**

Phosphatidylinositol 3-kinase regulatory subunit beta, PI3-kinase regulatory subunit beta, PI3K regulatory subunit beta, PtdIns-3-kinase regulatory subunit beta, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta, PI3-kinase subunit p85-beta, PtdIns-3-kinase regulatory subunit p85-beta, PIK3R2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8024a](/product/products/AP8024a) was selected from the N-term region of human PI3KR2. 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.

PI3KR2 Antibody (N-term) Blocking Peptide - Protein Information**Name** PIK3R2**Function**

Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P₂ (Phosphatidylinositol 4,5- biphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP₃). PIP₃ plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein- tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy (PubMed:[23604317](http://www.uniprot.org/citations/23604317)). Promotes nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin- dependent manner during

metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (By similarity).

PI3KR2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PI3KR2 Antibody (N-term) Blocking Peptide - Images

PI3KR2 Antibody (N-term) Blocking Peptide - Background

PI3KR2 binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane.

PI3KR2 Antibody (N-term) Blocking Peptide - References

Janssen, J.W., et al., Oncogene 16(13):1767-1772 (1998). Volinia, S., et al., Oncogene 7(4):789-793 (1992). Carpenter, C.L., et al., J. Biol. Chem. 265(32):19704-19711 (1990).