

HUMAN-PIK3R2(Y464) Blocking Peptide
Synthetic peptide
Catalog # BP21653a**Specification**

HUMAN-PIK3R2(Y464) Blocking Peptide - Product InformationPrimary Accession [O00459](#)**HUMAN-PIK3R2(Y464) 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 is selected from aa 450-470 of HUMAN PIK3R2

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.

HUMAN-PIK3R2(Y464) 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). 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).

HUMAN-PIK3R2(Y464) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HUMAN-PIK3R2(Y464) Blocking Peptide - Images

HUMAN-PIK3R2(Y464) Blocking Peptide - Background

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HUMAN-PIK3R2(Y464) Blocking Peptide - References

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