

Anti-PIK3R2 Picoband Antibody
Catalog # ABO12463**Specification****Anti-PIK3R2 Picoband Antibody - Product Information**

Application	WB
Primary Accession	O00459
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Phosphatidylinositol 3-kinase regulatory subunit beta(PIK3R2) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PIK3R2 Picoband Antibody - 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

Calculated MW

81545 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Protein Name

Phosphatidylinositol 3-kinase regulatory subunit beta

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human PIK3R2 (427-463aa KYQQDQIVKEDSVEAVGAQLKVYHQYQDKSREYDQL), different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-PIK3R2 Picoband Antibody - Protein Information

Name PIK3R2

Function

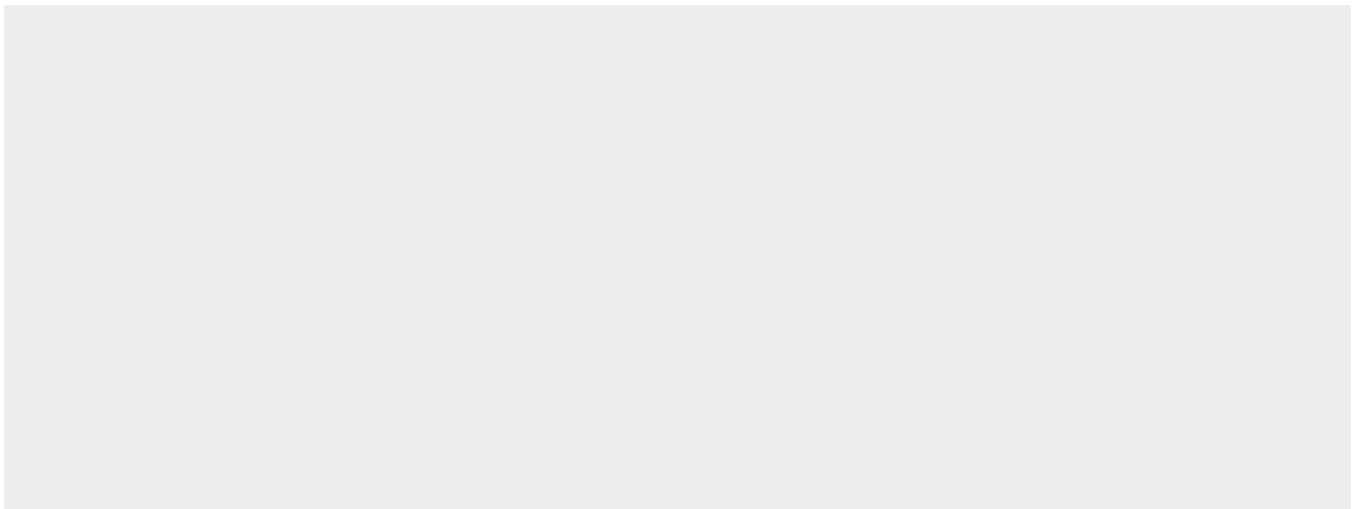
Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P₂ (Phosphatidylinositol 4,5- biphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP₃). PIP₃ plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, 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).

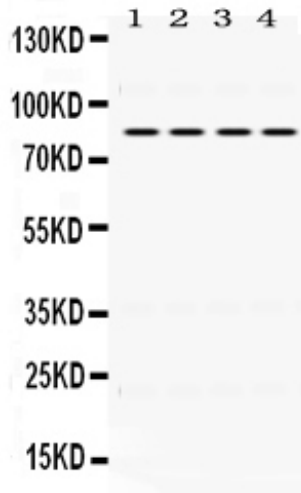
Anti-PIK3R2 Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PIK3R2 Picoband Antibody - Images





Anti- PIK3R2 Picoband antibody, ABO12463, Western blotting All lanes: Anti PIK3R2 (ABO12463) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: 22RV1 Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Lane 4: SW620 Whole Cell Lysate at 40ug Predicted bind size: 85KD Observed bind size: 85KD

Anti-PIK3R2 Picoband Antibody - Background

PIK3R2 (Phosphatidylinositol 3-kinase, regulatory subunit 2), also called p85-Beta, is an enzyme that in humans is encoded by the PIK3R2 gene. The PIK3R2 gene is mapped on 19p13.11. Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene.