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PI3KR2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8024b

Specification

PI3KR2 Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O00459
Other Accession	P23726
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**81545**
Antigen Region	**268-298**

PI3KR2 Antibody (C-term) - 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
This PI3KR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 268-298 amino acids from the C-terminal region of human PI3KR2.

Dilution
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PI3KR2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PI3KR2 Antibody (C-term) - Protein Information

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Name PIK3R2

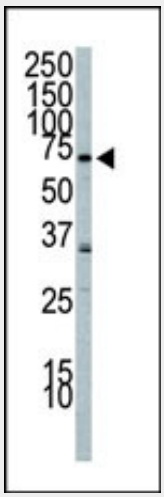
Function Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P2 (Phosphatidylinositol 4,5- bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including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

PI3KR2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PI3KR2 Antibody (C-term) - Images



Western blot analysis of anti-PI3KR2 Pab (Cat. #8024b) in A549 cell lysate. PI3KR2 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

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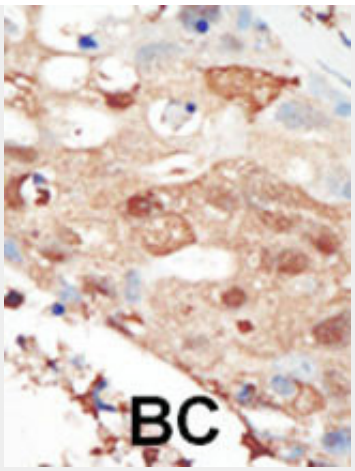

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

PI3KR2 Antibody (C-term) - 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 (C-term) - 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).