

PI3K p85 beta Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51918

Specification

PI3K p85 beta Antibody - Product Information

Application	WB, E
Primary Accession	O00459
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85 KDa

PI3K p85 beta 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

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

PI3K p85 beta 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](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).

PI3K p85 beta 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](#)

PI3K p85 beta Antibody - Images

PI3K p85 beta Antibody - Background

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.

PI3K p85 beta Antibody - References

Volinia S., et al. *Oncogene* 7:789-793(1992).
Janssen J.W.G., et al. *Oncogene* 16:1767-1772(1998).
Grimwood J., et al. *Nature* 428:529-535(2004).
Braunger J., et al. *Oncogene* 14:2619-2631(1997).
Igarashi K., et al. *Biochem. Biophys. Res. Commun.* 246:95-99(1998).