

**PI3K p85 beta Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51428**

**Specification**

---

**PI3K p85 beta Antibody - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | <b>WB, E</b>             |
| Primary Accession | <a href="#">O00459</a>   |
| Reactivity        | <b>Human, Mouse, Rat</b> |
| Host              | <b>Rabbit</b>            |
| Clonality         | <b>Polyclonal</b>        |
| Calculated MW     | <b>85 KDa</b>            |

**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)P<sub>2</sub> (Phosphatidylinositol 4,5- bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP<sub>3</sub>). PIP<sub>3</sub> 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: <a href="http://www.uniprot.org/citations/23604317" target="\_blank">23604317</a>). 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).