

#### PI3 Kinase P85 Rabbit Polyclonal Antibody

**Catalog # AP63789** 

#### **Specification**

# PI3 Kinase P85 Rabbit Polyclonal Antibody - Product Information

Application IHC-P Primary Accession P27986

Reactivity Human, Rat, Mouse

Host Rabbit Clonality Polyclonal

### PI3 Kinase P85 Rabbit Polyclonal Antibody - Additional Information

**Gene ID 5295** 

Other Names PIK3R1

**Dilution** IHC-P~~N/A

**Format** 

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions -20°C

# PI3 Kinase P85 Rabbit Polyclonal Antibody - Protein Information

Name PIK3R1

**Synonyms** GRB1

#### **Function**

Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling (PubMed:<a href="http://www.uniprot.org/citations/17626883" target="\_blank">17626883</a>, PubMed:<a href="http://www.uniprot.org/citations/19805105" target="\_blank">19805105</a>, PubMed:<a href="http://www.uniprot.org/citations/7518429" target="\_blank">7518429</a>). Modulates the cellular response to ER stress by promoting 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 (PubMed:<a href="http://www.uniprot.org/citations/20348923" target="blank">20348923</a>).

**Tissue Location** 



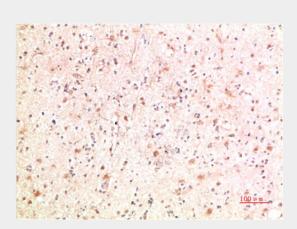
Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level)

# PI3 Kinase P85 Rabbit Polyclonal Antibody - Protocols

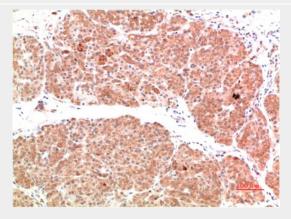
Provided below are standard protocols that you may find useful for product applications.

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

#### PI3 Kinase P85 Rabbit Polyclonal Antibody - Images



Immunohistochemical analysis of paraffin-embedded Human Brain Tissue using PI3 Kinase P85 Rabbit pAb diluted at 1:500.



Immunohistochemical analysis of paraffin-embedded Human Pancreas Carcinoma Tissue using PI3 Kinase P85 Rabbit pAb diluted at 1:500.

# PI3 Kinase P85 Rabbit Polyclonal Antibody - Background

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