

**PI3 Kinase P85 $\alpha$  Monoclonal Antibody(2D2)**  
**Catalog # AP63636****Specification****PI3 Kinase P85 $\alpha$  Monoclonal Antibody(2D2) - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P27986</a>
Reactivity	Rat, Mouse
Host	Mouse
Clonality	Monoclonal

**PI3 Kinase P85 $\alpha$  Monoclonal Antibody(2D2) - Additional Information****Gene ID** 5295**Other Names**

PIK3R1; GRB1; Phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; PI3-kinase subunit p85-alpha; PtdIns-3-kinase regulatory subunit p85-alpha

**Dilution**

WB~~WB 1:1000-2000, IHC 1:100-200  
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 $\alpha$  Monoclonal Antibody(2D2) - 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**

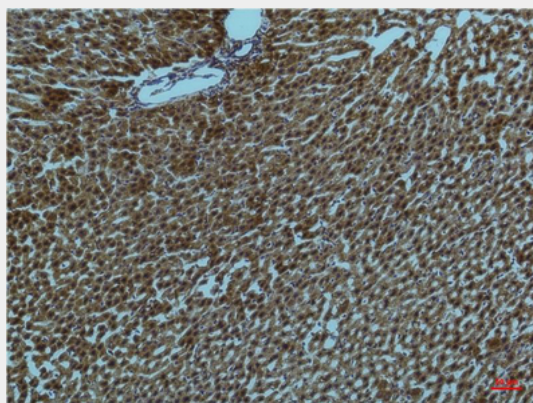
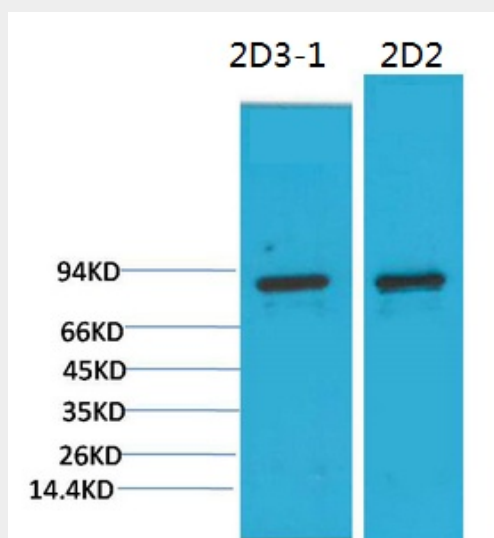
Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level)

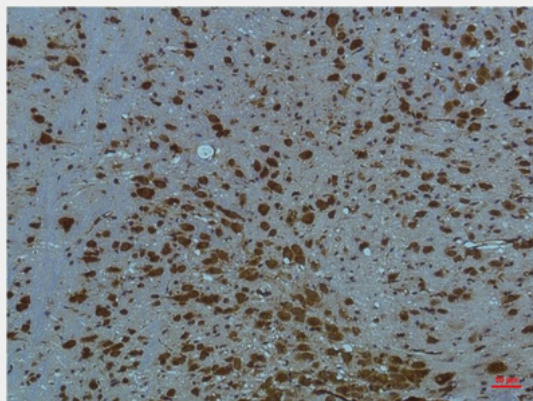
#### **PI3 Kinase P85 $\alpha$ Monoclonal Antibody(2D2) - Protocols**

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](#)

#### **PI3 Kinase P85 $\alpha$ Monoclonal Antibody(2D2) - Images**





### **PI3 Kinase P85α Monoclonal Antibody(2D2) - Background**

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