

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

Application	WB
Primary Accession	P27986
Reactivity	Rat, Mouse
Host	Mouse
Clonality	Monoclonal

PI3 Kinase P85 α 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

Format

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

Storage Conditions

-20°C

PI3 Kinase P85 α 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:17626883, PubMed:19805105, PubMed:7518429). 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:20348923)

target="_blank">20348923).

Tissue Location

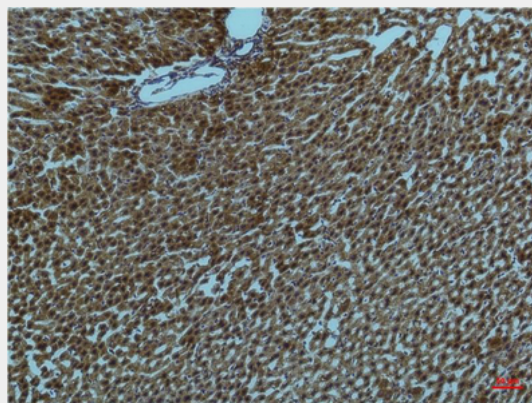
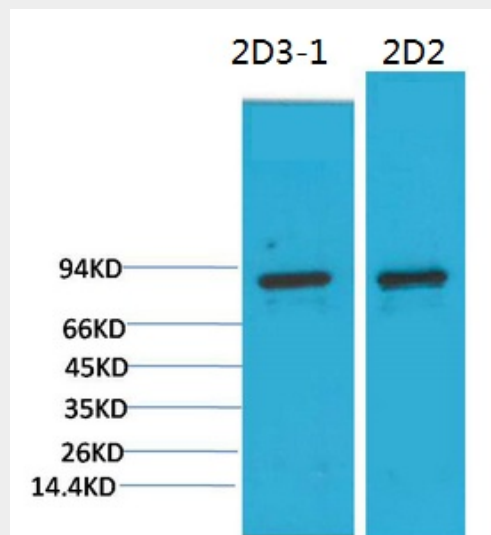
Isoform 2 is expressed in skeletal muscle and brain, and at lower levels in kidney and cardiac muscle. Isoform 2 and isoform 4 are present in skeletal muscle (at protein level)

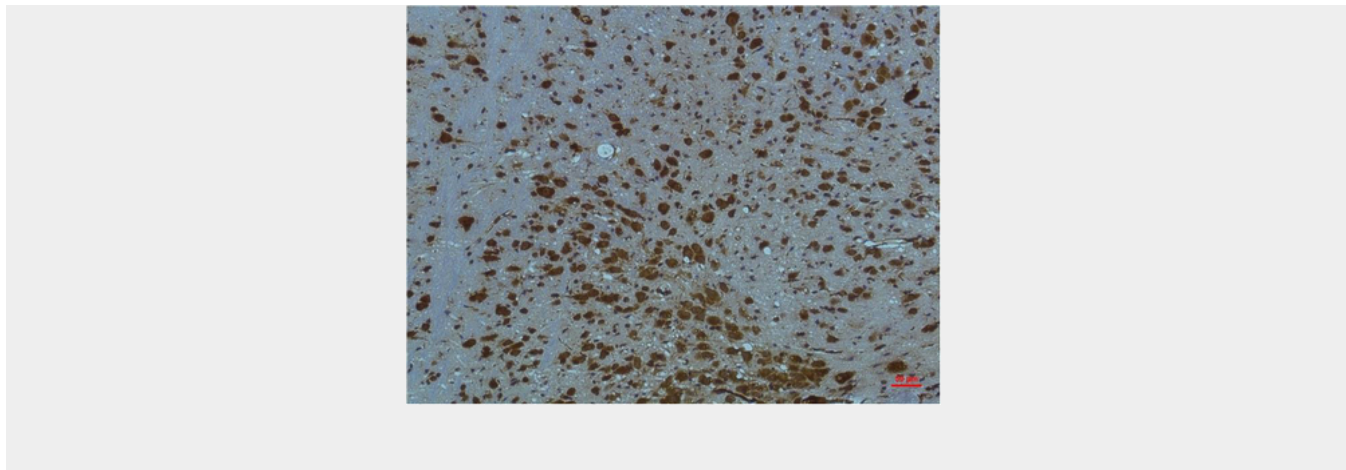
PI3 Kinase P85 α Monoclonal Antibody(2D2) - Protocols

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 α Monoclonal Antibody(2D2) - Images





PI3 Kinase P85 α Monoclonal Antibody(2D2) - Background

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