

# PI3 Kinase P85 Rabbit Polyclonal Antibody

Catalog # AP63789

## Product Information

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<b>Application</b>	IHC-P
<b>Primary Accession</b>	<a href="#">P27986</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	83598

## Additional Information

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<b>Gene ID</b>	5295
<b>Other Names</b>	PIK3R1
<b>Dilution</b>	IHC-P~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	PIK3R1
<b>Synonyms</b>	GRB1
<b>Function</b>	<p>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="#">17626883</a>, PubMed:<a href="#">19805105</a>, PubMed:<a href="#">7518429</a>).</p> <p>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="#">20348923</a>).</p>
<b>Tissue Location</b>	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)

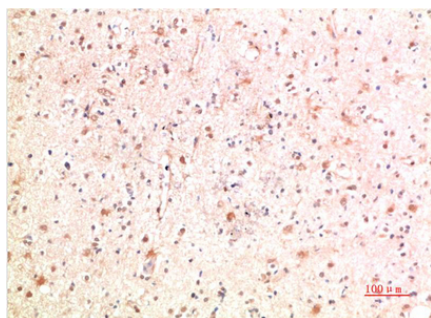
## Background

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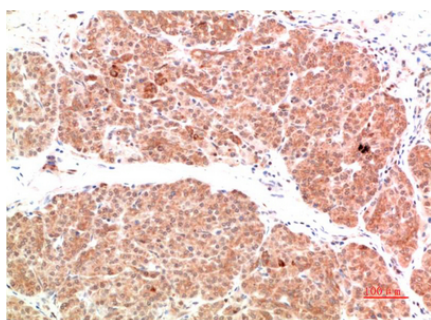
Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays 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](#)).

## Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.