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Anti-PIK3R1 / p85 Alpha Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18159

Product Information

Application	WB, IHC-P
Primary Accession	P27986
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	83598

Additional Information

Gene ID	5295
Alias Symbol	PIK3R1
Other Names	PIK3R1, p85, p85 Alpha, p85-ALPHA, PI3K regulatory subunit alpha, PI3-kinase subunit p85-alpha, GRB1
Target/Specificity	Human PIK3R1 / p85 Alpha
Reconstitution & Storage	Affinity purified
Precautions	Anti-PIK3R1 / p85 Alpha Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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).

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)