

Anti-PIK3R1 / p85 Alpha Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18159**Specification**

Anti-PIK3R1 / p85 Alpha Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P27986
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	83598
Dilution	WB~~1:1000 IHC-P~~N/A

Anti-PIK3R1 / p85 Alpha Antibody - 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.

Anti-PIK3R1 / p85 Alpha 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:17626883, PubMed:<a

[19805105](http://www.uniprot.org/citations/19805105), PubMed: [7518429](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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)

Anti-PIK3R1 / p85 Alpha 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 Cytometry](#)
- [Cell Culture](#)

Anti-PIK3R1 / p85 Alpha Antibody - Images