

**Product Name: PI3 Kinase p85 alpha (4H15) Rabbit
Monoclonal Antibody
Catalog #: AMRe16111**



Summary

| | |
|------------------------|--|
| Production Name | PI3 Kinase p85 alpha (4H15) Rabbit Monoclonal Antibody |
| Description | Rabbit Monoclonal Antibody |
| Host | Rabbit |
| Application | WB,ELISA |
| Reactivity | Human,Mouse,Rat |

Performance

| | |
|---------------------|--|
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | IgG |
| Clonality | Monoclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Purification | Affinity purification |

Immunogen

| | |
|--------------------------|--|
| Gene Name | PIK3R1 |
| Alternative Names | GRB1; p85 alpha; PI3-kinase subunit p85-alpha; PI3K; PI3K regulatory subunit alpha; Pik3r1; PtdIns 3 kinase p85 alpha; |
| Gene ID | 5295.0 |
| SwissProt ID | P27986. |

Application

| | |
|-------------------------|-----------------|
| Dilution Ratio | WB 1:500-1:2000 |
| Molecular Weight | 84kDa |

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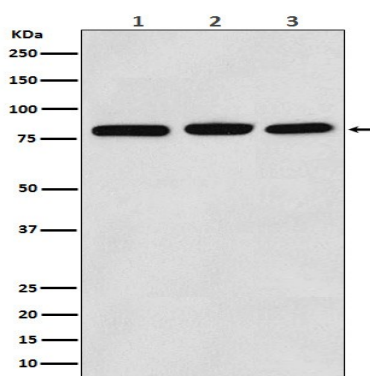


Background

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. 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](http://www.uniprot.org/citations/17626883), PubMed:[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)).

Research Area

Image Data



Western blot analysis of PI3 Kinase p85 alpha expression in (1) K562 cell lysate; (2) Raw 264.7 cell lysate; (3) C6 cell lysate.

Note

For research use only.