

## PI3-kinase p85-alpha Antibody | anti-PI3K antibody

Phospho-PI3-kinase p85-alpha (Tyr607) Antibody

|                               |                                        |                                                           |
|-------------------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA267877</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------------------------|-----------------------------------------------------------|

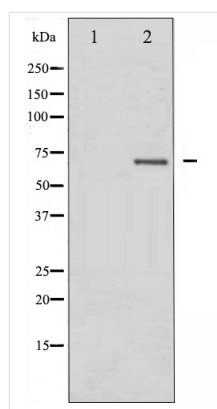
### PRODUCT SYNONYMS

PI3-kinase p85-alpha; Phospho-PI3-kinase p85-alpha (Tyr607) Antibody; GRB1; P85A; PI3-kinase p85-alpha subunit; PI3K p85-alpha; Phosphatidylinositol 3-kinase regulatory alpha subunit; PtdIns-3-kinase p85-alpha; anti-PI3K antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                     | Human, Mouse, Rat                                                                                                                         |
| Isotype                                        | Rabbit IgG                                                                                                                                |
| Specificity                                    | Phospho-PI3-kinase p85-alpha (Tyr607) Antibody detects endogenous levels of PI3-kinase p85-alpha only when phosphorylated at Tyrosine 607 |
| Purity/Purification                            | Immunogen affinity purified                                                                                                               |
| Form/Format                                    | In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                    |
| Sequence Length                                | 361                                                                                                                                       |
| Applicable Applications for anti-PI3K antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                             |
| Immunogen                                      | A synthesized peptide derived from human PI3-kinase p85-alpha around the phosphorylation site of Tyrosine 607                             |
| Preparation and Storage                        | Store at -20°C for 1 year                                                                                                                 |

### IMAGES



#### WB (Western Blot)

Western blot analysis of PI3-kinase p85- alpha phosphorylation expression in Rat kidney tissue lysates. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PI3K antibody | PIK3R1 is a regulatory subunit of phosphoinositide-3-kinase. Mediates binding to a subset of tyrosine-phosphorylated proteins through its SH2 domain. Acts as an adapter, mediating the association of the p110 catalytic unit of the alpha, beta and delta enzymes to the plasma membrane, where p110 phosphorylates inositol lipids. May play an additional role in the regulation of the actin cytoskeleton. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Its SH2 domains interacts with the YTHM motif of phosphorylated INSR in vitro. Defects in PIK3R1 are a cause of severe insulin resistance. Four alternatively spliced isoforms have been described. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 335057534                                                                                                                                                                                      |
| NCBI GeneID                      | 5295                                                                                                                                                                                           |
| NCBI Accession #                 | NP_001229395.1                                                                                                                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001242466.1                                                                                                                                                                                 |
| UniProt Accession #              | P27986; Q15747; Q4VBZ7; Q53EM6; Q8IXA2; Q8N1C5; B3KT19; D3DWA0; E7EX19                                                                                                                         |
| Molecular Weight                 | 80kDa                                                                                                                                                                                          |
| NCBI Official Full Name          | phosphatidylinositol 3-kinase regulatory subunit alpha isoform 4                                                                                                                               |
| NCBI Official Synonym Full Names | phosphoinositide-3-kinase regulatory subunit 1                                                                                                                                                 |
| NCBI Official Symbol             | PIK3R1                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | p85; AGM7; GRB1; IMD36; p85-ALPHA                                                                                                                                                              |
| NCBI Protein Information         | phosphatidylinositol 3-kinase regulatory subunit alpha                                                                                                                                         |
| UniProt Protein Name             | Phosphatidylinositol 3-kinase regulatory subunit alpha                                                                                                                                         |
| UniProt Gene Name                | PIK3R1                                                                                                                                                                                         |
| UniProt Synonym Gene Names       | GRB1; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; PI3-kinase subunit p85-alpha; PtdIns-3-kinase regulatory subunit p85-alpha |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.