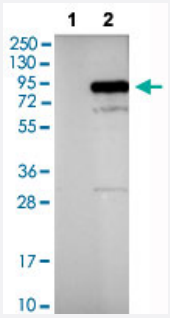
# PIK3R1 polyclonal antibody

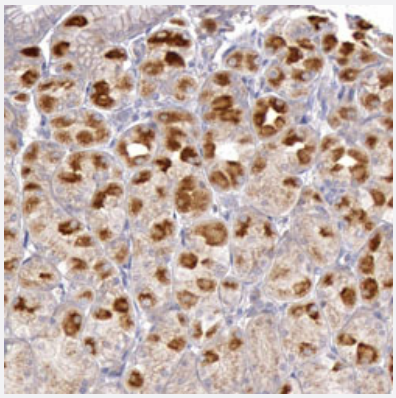
Catalog # PAB29309 Size 100 uL

## Applications



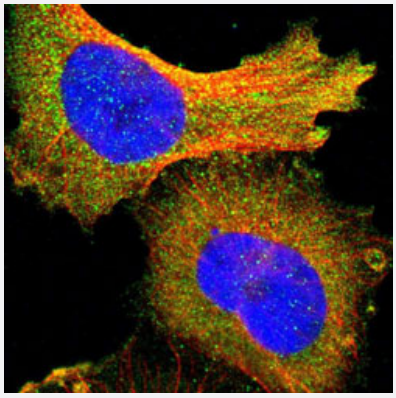

### Western Blot (Transfected lysate)

Western blot analysis of Lane 1: Negative control (vector only transfected HEK293T lysate), Lane 2: Over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells) with PIK3R1 polyclonal antibody (Cat# PAB29309) at 1:100 - 1:250 dilution.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach tissue with PIK3R1 polyclonal antibody (Cat# PAB29309) at 1:50 - 1:200 dilution.



### Immunofluorescence

Immunofluorescence staining of U-251 MG cells with PIK3R1 polyclonal antibody (Cat# PAB29309) under 1-4 ug/mL working concentration.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against recombinant human PIK3R1. |
| **Immunogen** | Recombinant protein corresponding to amino acids 182-328 of human PIK3R1. |
| **Sequence** | LADAFKRYLLDLPNPVIPAAVYSEMISLAPEVQSSEEYIQLLKKLIRSPSIPHQYWLTLQYLLKHFFKL SQTSSKNLLNARVLSEIFSPMLFRFSAASSDNTENLIKVIEILISTEWNERQPAPALPPKPPKPTTVA NNGMNNNMSL |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunofluorescence (1-4 ug/mL)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:100-1:250)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

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- Immunofluorescence

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## Gene Info — PIK3R1

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|---|---|
| **Entrez GeneID** | 5295 |
| **Protein Accession#** | P27986 |
| **Gene Name** | PIK3R1 |
| **Gene Alias** | GRB1, p85, p85-ALPHA |
| **Gene Description** | phosphoinositide-3-kinase, regulatory subunit 1 (alpha) |
| **Omim ID** | 171833 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prim e position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85 , 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase pla ys an important role in the metabolic actions of insulin, and a mutation in this gene has been asso ciated with insulin resistance. Alternative splicing of this gene results in three transcript variants en coding different isoforms. [provided by RefSeq |
| **Other Designations** | phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)\|phosphatidylinositol 3 -kinase, regulatory, 1\|phosphatidylinositol 3-kinase-associated p-85 alpha\|phosphoinositide-3-kin ase, regulatory subunit 1 (p85 alpha)\|phosphoinositide-3-ki |

## Pathway

- Acute myeloid leukemia
- Apoptosis
- B cell receptor signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis

- Focal adhesion
- Glioma
- Insulin signaling pathway
- Jak-STAT signaling pathway
- Leukocyte transendothelial migration
- Melanoma
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Small cell lung cancer
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- VEGF signaling pathway

## Disease

- Alzheimer disease
- Body Weight
- Cardiovascular Diseases

- Colon cancer
- Colonic Neoplasms
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Glucose Intolerance
- HIV Infections
- Hypercholesterolemia
- Hypertension
- Insulin Resistance
- Kidney Failure
- Neoplasms
- Obesity
- Pancreatic cancer
- Pancreatic Neoplasms
- Periodontitis
- Polycystic Ovary Syndrome
- Prostatic Neoplasms
- Tobacco Use Disorder