

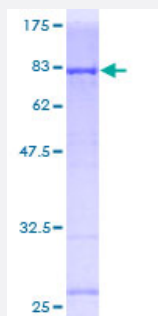
Full-Length

PIK3R1 (Human) Recombinant Protein (P01)

Catalog # H00005295-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PIK3R1 full-length ORF (AAH30815, 1 a.a. - 454 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNNMSLQDAEWY
WGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLRLKGGNNKLIKIFHRDGKYGFSDPLTFSS
VVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHKYNTQFQEKSREYDRL
YEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERYSKYIEKFKREGNEKEIQRIMHNYDKLKSRI
SEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRRQKKLNEWLGNE
NTEDQYSLVEDDEDLPHHDEKTNVNGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVD
GEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNSLNVTLAYPVYAQQRR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

75.68

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PIK3R1

Entrez GeneID [5295](#)

GeneBank Accession# [BC030815](#)

Protein Accession# [AAH30815](#)

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-prime 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 plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in three transcript variants encoding 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-kinase, 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](#)