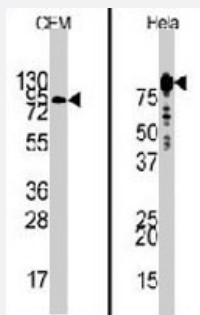


PIK3R1 polyclonal antibody

Catalog # PAB3220

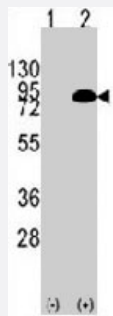
Size 400 uL

Applications



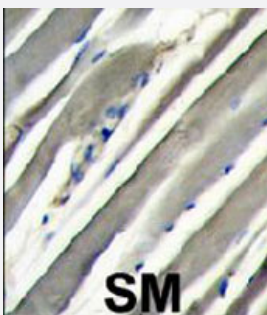
Western Blot (Cell lysate)

Western blot analysis of PIK3R1 polyclonal antibody (Cat # PAB3220) in CEM and HeLa cell line lysates (35 ug/lane). PIK3R1 (arrow) was detected using the purified polyclonal antibody (1 : 63 dilution).



Western Blot (Transfected lysate)

Western blot analysis of PIK3R1 polyclonal antibody (Cat # PAB3220) in 293 cell line lysates transiently transfected with the PIK3R1 gene (3 ug/lane). PIK3R1 (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).



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

Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PIK3R1 polyclonal antibody (Cat # PAB3220), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of PIK3R1.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PIK3R1.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of PIK3R1 polyclonal antibody (Cat # PAB3220) in CEM and Hela cell line lysates (35 ug/lane). PIK3R1 (arrow) was detected using the purified polyclonal antibody (1 : 63 dilution).

- Western Blot (Transfected lysate)

Western blot analysis of PIK3R1 polyclonal antibody (Cat # PAB3220) in 293 cell line lysates transiently transfected with the PIK3R1 gene (3 ug/lane). PI3KR1 (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).

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

Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PIK3R1 polyclonal antibody (Cat # PAB3220), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Gene Info — PIK3R1

Entrez GeneID	5295
Protein Accession#	NP_852556;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-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

Publication Reference

- [Polarity and proliferation are controlled by distinct signaling pathways downstream of PI3-kinase in breast epithelial tumor cells.](#)
Liu H, Radisky DC, Wang F, Bissell MJ.
Journal of Cellular Biology 2004 Feb; 164(4):603.
- [Genetic down-regulation of phosphoinositide 3-kinase by bikunin correlates with suppression of invasion and metastasis in human ovarian cancer HRA cells.](#)
Kobayashi H, Suzuki M, Kanayama N, Terao T.
The Journal of Biological Chemistry 2003 Nov; 279(8):6371.
- [Activation of phosphatidylinositol 3-kinase/Akt pathway by androgen through interaction of p85alpha, androgen receptor, and Src.](#)
Sun M, Yang L, Feldman RI, Sun XM, Bhalla KN, Jove R, Nicosia SV, Cheng JQ.
The Journal of Biological Chemistry 2003 Aug; 278(44):42992.

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](#)