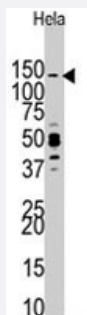


PIK3CG polyclonal antibody

Catalog # PAB4069

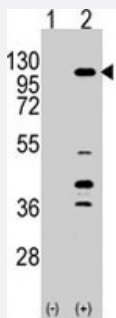
Size 400 uL

Applications



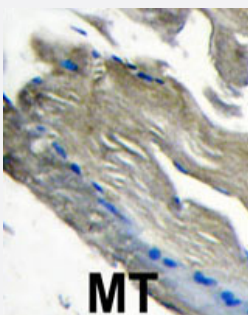
Western Blot (Cell lysate)

Western blot analysis of PIK3CG polyclonal antibody (Cat # PAB4069) in HeLa cell lysate (35 ug/lane). PIK3CG (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).



Western Blot (Transfected lysate)

Western blot analysis of PIK3CG polyclonal antibody (Cat # PAB4069) in 293 cell lysate transiently transfected with the PIK3CG gene (2 ug/lane). PIK3CG (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).



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

Formalin-fixed and paraffin-embedded human muscle tissue reacted with PIK3CG polyclonal antibody (Cat # PAB4069), 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 PIK3CG.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PIK3CG.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) Immunohistochemistry (1:10-50) 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 PIK3CG polyclonal antibody (Cat # PAB4069) in HeLa cell lysate (35 ug/lane). PIK3CG (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).

- Western Blot (Transfected lysate)

Western blot analysis of PIK3CG polyclonal antibody (Cat # PAB4069) in 293 cell lysate transiently transfected with the PIK3CG gene (2 ug/lane). PIK3CG (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).

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

Formalin-fixed and paraffin-embedded human muscle tissue reacted with PIK3CG polyclonal antibody (Cat # PAB4069) , 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.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PIK3CG

Entrez GeneID	5294
Protein Accession#	NP_002640;P48736

Gene Name	PIK3CG
Gene Alias	PI3CG, PI3K, PI3Kgamma, PIK3
Gene Description	phosphoinositide-3-kinase, catalytic, gamma polypeptide
Omim ID	601232
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that belongs to the pi3/pi4-kinase family of proteins. The gene product is an enzyme that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. It is an important modulator of extracellular signals, including those elicited by E-cadherin-mediated cell-cell adhesion, which plays an important role in maintenance of the structural and functional integrity of epithelia. In addition to its role in promoting assembly of adherens junctions, the protein is thought to play a pivotal role in the regulation of cytotoxicity in NK cells. The gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. [provided by RefSeq]
Other Designations	1-phosphatidylinositol 3-kinase PI3-kinase PTDINS-3-kinase p110-gamma phosphatidylinositol 3-kinase gamma, p110 gamma phosphatidylinositol 3-kinase catalytic 110-kD gamma phosphatidylinositol 3-kinase, catalytic, gamma polypeptide phosphoinositide-3-kinase

Publication Reference

- [The IL-1 receptor accessory protein is essential for PI 3-kinase recruitment and activation.](#)

Reddy SA, Lin YF, Huang HJ, Samanta AK, Liao WS.
 Biochemical and Biophysical Research Communications 2004 Apr; 316(4):1022.
- [Activation of the hexosamine pathway leads to phosphorylation of insulin receptor substrate-1 on Ser307 and Ser612 and impairs the phosphatidylinositol 3-kinase/Akt/mammalian target of rapamycin insulin biosynthetic pathway in RIN pancreatic beta-cells.](#)

Andreozzi F, D'Alessandris C, Federici M, Laratta E, Del Guerra S, Del Prato S, Marchetti P, Lauro R, Perticone F, Sesti G.
 Endocrinology 2004 Mar; 145(6):2845.
- [Inhibition of the PI3K-Akt signaling pathway enhances the sensitivity of Fas-mediated apoptosis in human gastric carcinoma cell line, MKN-45.](#)

Osaki M, Kase S, Adachi K, Takeda A, Hashimoto K, Ito H.
 Journal of Cancer Research and Clinical Oncology 2003 Nov; 130(1):8.

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](#)
- [Inositol phosphate metabolism](#)
- [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

- [Adenocarcinoma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Insulin Resistance](#)
- [Mental Disorders](#)
- [NARP](#)
- [Obesity](#)