



Anti-PIK3CG polyclonal antibody (DPAB-DC2253)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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. Several transcript variants encoding the same protein have been found for this gene.

Immunogen	A synthetic peptide corresponding to human PIK3CG. The sequence is C-VLGIKQGEKHS
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	WB (Tissue lysate), ELISA,
Format	Liquid
Concentration	0.5 mg/mL
Size	100 µg
Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Preservative	0.02% Sodium Azide

Storage

Store at -20°C. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PIK3CG phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma [Homo sapiens (human)]
Official Symbol	PIK3CG
Synonyms	PIK3CG; phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma; PI3K; PIK3; PI3CG; PI3Kgamma; p110gamma; p120-PI3K; phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform; PI3-kinase subunit gamma; ptdIns-3-kinase subunit gamma; 1-phosphatidylinositol 3-kinase; ptdIns-3-kinase subunit p110-gamma; serine/threonine protein kinase PIK3CG; phosphatidylinositol 3 kinase gamma, p110 gamma; phosphoinositide-3-kinase gamma catalytic subunit; phosphatidylinositol 3-kinase catalytic 110-kD gamma; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit gamma; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma isoform;
Entrez Gene ID	5294
Protein Refseq	NP_001269355
UniProt ID	A0A024R720
Chromosome Location	7q22.3
Pathway	3-phosphoinositide biosynthesis; AMPK signaling pathway; Adrenergic signaling in cardiomyocytes; Alpha6-Beta4 Integrin Signaling Pathway
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; ephrin receptor binding
