



Datasheet for ABIN7163196

## anti-PIK3 gamma antibody (Catalytic Subunit gamma)



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### 1 Image

#### Overview

Quantity:	100 µg
Target:	PIK3 gamma (PIK3CG)
Binding Specificity:	AA 438-588, Catalytic Subunit gamma
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3 gamma antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF)

#### Product Details

Immunogen:	Recombinant Human Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform protein (438-588AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

#### Target Details

Target:	PIK3 gamma (PIK3CG)
Alternative Name:	PIK3CG ( <a href="#">PIK3CG Products</a> )
Background:	Background: Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns(4,5)P2

(Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Links G-protein coupled receptor activation to PIP3 production. Involved in immune, inflammatory and allergic responses. Modulates leukocyte chemotaxis to inflammatory sites and in response to chemoattractant agents. May control leukocyte polarization and migration by regulating the spatial accumulation of PIP3 and by regulating the organization of F-actin formation and integrin-based adhesion at the leading edge. Controls motility of dendritic cells. Together with PIK3CD is involved in natural killer (NK) cell development and migration towards the sites of inflammation. Participates in T-lymphocyte migration. Regulates T-lymphocyte proliferation and cytokine production. Together with PIK3CD participates in T-lymphocyte development. Required for B-lymphocyte development and signaling. Together with PIK3CD participates in neutrophil respiratory burst. Together with PIK3CD is involved in neutrophil chemotaxis and extravasation. Together with PIK3CB promotes platelet aggregation and thrombosis. Regulates alpha-IIb/beta-3 integrins (ITGA2B/ITGB3) adhesive function in platelets downstream of P2Y12 through a lipid kinase activity-independent mechanism. May have also a lipid kinase activity-dependent function in platelet aggregation. Involved in endothelial progenitor cell migration. Negative regulator of cardiac contractility. Modulates cardiac contractility by anchoring protein kinase A (PKA) and PDE3B activation, reducing cAMP levels. Regulates cardiac contractility also by promoting beta-adrenergic receptor internalization by binding to ADRBK1 and by non-muscle tropomyosin phosphorylation. Also has serine/threonine protein kinase activity: both lipid and protein kinase activities are required for beta-adrenergic receptor endocytosis. May also have a scaffolding role in modulating cardiac contractility. Contributes to cardiac hypertrophy under pathological stress. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which the PI3K gamma complex is activated by RAPGEF3 and which is involved in angiogenesis.

Aliases: 1 phosphatidylinositol 3 kinase antibody, 5-bisphosphate 3-kinase 110 kDa catalytic subunit gamma antibody, 5-bisphosphate 3-kinase catalytic subunit gamma isoform antibody, p110 gamma antibody, p110gamma antibody, p120 PI3K antibody, p120-PI3K antibody, Phosphatidylinositol 3 kinase catalytic 110 kD gamma antibody, Phosphatidylinositol 3 kinase gamma, p110 gamma antibody, Phosphatidylinositol 3 kinase, catalytic, gamma polypeptide antibody, Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic subunit gamma antibody, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit gamma antibody, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit gamma isoform antibody, Phosphatidylinositol-4 antibody, Phosphoinositide 3 kinase catalytic gamma polypeptide

## Target Details

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antibody, Phosphoinositide 3 kinase gamma catalytic subunit antibody, PI 3 Kinase catalytic subunit gamma antibody, PI3 kinase p110 subunit gamma antibody, PI3-kinase subunit gamma antibody, PI3CG antibody, PI3K antibody, PI3K-gamma antibody, PI3Kgamma antibody, PIK3 antibody, Pik3cg antibody, PK3CG\_HUMAN antibody, PtdIns-3-kinase subunit gamma antibody, PtdIns-3-kinase subunit p110-gamma antibody, Serine/threonine protein kinase PIK3CG antibody

UniProt: [P48736](#)

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [AMPK Signaling](#), [TLR Signaling](#), [Inositol Metabolic Process](#), [Hepatitis C](#), [VEGF Signaling](#)

## Application Details

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Application Notes: Recommended dilution: IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

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Format: Liquid

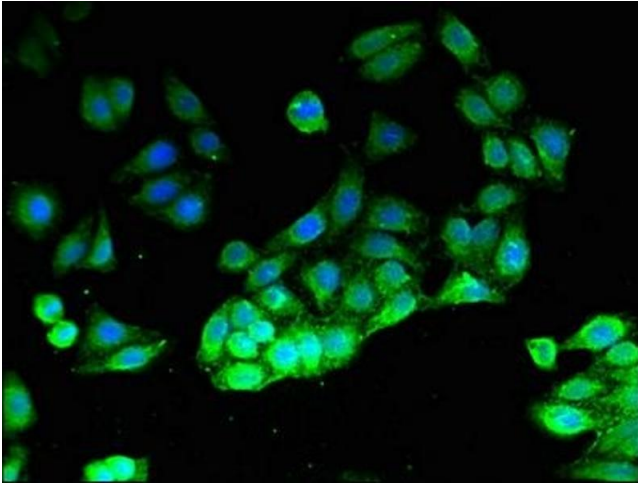
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



### Immunofluorescence

**Image 1.** Immunofluorescent analysis of HepG2 cells using ABIN7163196 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)