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Rabbit Anti-phospho-PIK3 gamma (Ser1101)antibody

SL10277R

Product Name	phospho-PIK3 gamma (Ser1101)
Chinese Name	磷酸化磷脂酰肌醇激酶 PIK3-γ 抗体
Alias	PK3CG_HUMAN; Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isof subunit gamma; PI3K-gamma; PI3Kgamma; PtdIns-3-kinase subunit gamma; Phosphatidylinosi 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit gamma; PtdIns-3-kinase subunit p110-gam p110gamma; Phosphoinositide-3-kinase catalytic gamma polypeptide; Serine/threonine protein k 1 phosphatidylinositol 3 kinase; p120-PI3K; p120 PI3K; 5-bisphosphate 3-kinase 110 kDa cataly gamma; 5-bisphosphate 3-kinase catalytic subunit gamma isoform; p110 gamma; Phosphatidylin catalytic 110 kD gamma; Phosphatidylinositol 3 kinase gamma, p110 gamma; Phosphatidylinosi catalytic, gamma polypeptide; Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic s Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit gamma; Phosphatidylinositol 4 5 kinase catalytic subunit gamma isoform; Phosphatidylinositol-4; Phosphoinositide 3 kinase catal polypeptide; Phosphoinositide 3 kinase gamma catalytic subunit; PI3-kinase subunit gamma; PI PIK3; Pik3cg; PtdIns-3-kinase subunit gamma; PtdIns-3-kinase subunit p110-gamma; Serine/thr kinase PIK3CG.
Product Type	Phosphorylated anti
Research Area	Tumour immunology Signal transduction Kinases and Phosphatases G protein-coupled receptor
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	121kDa
Cellular localization	cytoplasmic The cell membrane

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Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthesised phosphopeptide derived from human PIK3 gamma around the phos of Ser1101: KH(p-S)A
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.
PubMed	PubMed
Product Detail	This gene encodes a protein that belongs to the pi3/pi4-kinase family of proteins. The gene produ that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. It is an impo of extracellular signals, including those elicited by E-cadherin-mediated cell-cell adhesion, whic important role in maintenance of the structural and functional integrity of epithelia. In addition t promoting assembly of adherens junctions, the protein is thought to play a pivotal role in the reg cytotoxicity in NK cells. The gene is located in a commonly deleted segment of chromosome 7 p identified in myeloid leukemias. [provided by RefSeq, Jul 2008]. **Function:** Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns(4,5)P2 (Phosphatidylinositol 4,5-b generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling involved in cell growth, survival, proliferation, motility and morphology. Links G-protein coupl activation to PIP3 production. Involved in immune, inflammatory and allergic responses. Modul chemotaxis to inflammatory sites and in response to chemoattractant agents. May control leukoc and migration by regulating the spatial accumulation of PIP3 and by regulating the organization formation and integrin-based adhesion at the leading edge. Controls motility of dendritic cells. T PIK3CD is involved in natural killer (NK) cell development and migration towards the sites of i Participates in T-lymphocyte migration. Regulates T-lymphocyte proliferation and cytokine proc Together with PIK3CD participates in T-lymphocyte development. Required for B-lymphocyte and signaling. Together with PIK3CD participates in neutrophil respiratory burst. Together with involved in neutrophil chemotaxis and extravasation. Together with PIK3CB promotes platelet a thrombosis. Regulates alpha-IIb/beta-3 integrins (ITGA2B/ ITGB3) adhesive function in platelet 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 migra regulator of cardiac contractility. Modulates cardiac contractility by anchoring protein kinase A PDE3B activation, reducing cAMP levels. Regulates cardiac contractility also by promoting beta receptor internalization by binding to ADRBK1 and by non-muscle tropomyosin phosphorylatio serine/threonine protein kinase activity: both lipid and protein kinase activities are required for b receptor endocytosis. May also have a scaffolding role in modulating cardiac contractility. Contri

hypertrophy under pathological stress. Through simultaneous binding of PDE3B to RAPGEF3 a assembled in a signaling complex in which the PI3K gamma complex is activated by RAPGEF3 involved in angiogenesis.

Subunit:
Heterodimer of a catalytic subunit PIK3CG and a PIK3R5 or PIK3R6 regulatory subunit. Interac ADRBK1 through the PIK helical domain. Interaction with ADRBK1 is required for targeting to agonist-occupied receptor. Interacts with PDE3B. Interacts with TPM2. Interacts with EPHA8; r integrin-mediated cell adhesion to substrate. Interacts with HRAS1; the interaction is required fo recruitment and beta-gamma G protein dimer-dependent activation of the PI3K gamma complex PIK3CG:PIK3R6 (By similarity).

Subcellular Location:
Cytoplasm. Cell membrane.

Tissue Specificity:
Pancreas, skeletal muscle, liver and heart.

Similarity:
Belongs to the PI3/PI4-kinase family.
Contains 1 C2 PI3K-type domain.
Contains 1 PI3K-ABD domain.
Contains 1 PI3K-RBD domain.
Contains 1 PI3K/PI4K domain.
Contains 1 PIK helical domain.

SWISS:
P48736

Gene ID:
5294

Database links:
UniProtKB/Swiss-Prot: P48736.3

Entrez Gene: 5294 Human

Entrez Gene: 30955 Mouse

Entrez Gene: 396979 Pig

GenBank: AF327656 Human

Omim: 601232 Human

SwissProt: P48736 Human

SwissProt: Q9JHG7 Mouse

SwissProt: O02697 Pig

Unigene: 32942 Human

Unigene: 101369 Mouse

Unigene: 404021 Mouse