P3C2A Rabbit pAb

CatalogNo: YN1839

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ELISA

MW
- 185kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol,0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from part region of human protein
Specificity	P3C2A Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	PIK3C2A

Protein Name Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha (PI3K-C2-alpha) (PtdIns-3-kinase C2 subunit alpha) (Phosphoinositide 3-kinase-C2-alpha)

Organism	Gene ID	UniProt ID
Human	5286;	O00443;
Mouse		Q61194;

Cellular Localization Cell membrane . Cytoplasmic vesicle, clathrin-coated vesicle . Nucleus . Cytoplasm . Golgi apparatus, trans-Golgi network . Inserts preferentially into membranes containing PtdIns(4,5)P2 (PubMed:17038310). Associated with RNA-containing structures (PubMed:11606566). .

Tissue specificity Expressed in columnar and transitional epithelia, mononuclear cells, smooth muscle cells, and endothelial cells lining capillaries and small venules (at protein level). Ubiquitously expressed, with highest levels in heart, placenta and ovary, and lowest levels in the kidney. Detected at low levels in islets of Langerhans from type 2 diabetes mellitus individuals.

Function Catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4-phosphate = ADP + 1-phosphatidyl-1D-myo-inositol 3,4-bisphosphate.,cofactor:Calcium or magnesium. Manganese cannot be used.,enzyme regulation:Activated by insulin (By similarity). Only slightly inhibited by wortmannin and LY294002. Activated by clathrin.,Function:Phosphorylates PtdIns, PtdIns4P and PtdIns(4,5)P2. May play a role in clathrin-coated endocytic vesicle formation and EGF signaling cascade. May be involved in mitosis and UV-induced damage response. May be a downstream effector in insulin signaling cascade.,PTM:Phosphorylated upon insulin stimulation; which may lead to enzyme activation (By similarity). Phosphorylated on Ser-259 during mitosis and upon UV irradiation; which does not change enzymatic activity but leads to proteasomal degradation. Ser-259 phosphorylation may be mediated by CDC2 or JNK, depending on the physiological state of the cell.,similarity:Belongs to the PI3/PI4-kinase family.,similarity:Contains 1 C2 domain.,similarity:Contains 1 PI3K/PI4K domain.,similarity:Contains 1 PX (phox homology) domain.,subcellular location:According to PubMed:10766823 and PubMed:11239472 it is found in the cell membrane, the Golgi apparatus and in clathrin-coated vesicles. According to PubMed:17038310 it inserts preferentially into membranes containing PtdIns(4,5)P2. According to PubMed:11606566 it is nuclear and cytoplasmic. Associated with RNA-containing structures. According to PubMed:14563213 it is mainly cytoplasmic.,subunit:Part of a complex with ERBB2 and EGFR. Interacts with clathrin trimers.,tissue specificity:Expressed in columnar and transitional epithelia, mononuclear cells, smooth muscle cells, and endothelial cells lining capillaries and small venules (at protein level). Ubiquitously expressed, with highest levels in heart, placenta and ovary, and lowest levels in the kidney.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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