



PI 3-Kinase C2γ Monoclonal Antibody

Catalog No	YP-mAb-15051
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PIK3C2G
Immunogen	Synthesized peptide derived from the N-terminal region of human PI 3-Kinase C2 γ.
Specificity	PI 3-Kinase C2γ Monoclonal Antibody detects endogenous levels of PI 3-Kinase C2γ protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PI 3-Kinase C2γ;PIK3C2G;Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit gamma;PI3K-C2-gamma;PtdIns-3-kinase C2 subunit gamma;Phosphoinositide 3-kinase-C2-gamma
Observed Band	160kD
Calculated Molecular Weight	160kD
Cell Pathway	Membrane ; Peripheral membrane protein .
Tissue Specificity	Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas.
Function	catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4-phosphate = ADP + 1-phosphatidyl-1D-myo-inositol 3,4-bisphosphate.,function:In vitro, phosphorylates PtdIns and PtdIns4P but not PtdIns(4,5)P2.,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.,tissue specificity:Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas.,



Background

The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. This gene may play a role in several diseases, including type II diabetes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],

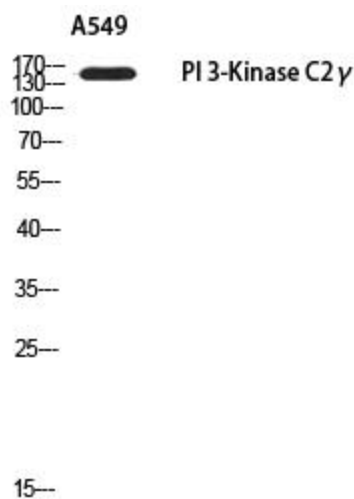
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using PI 3-Kinase C2γ Monoclonal Antibody