



# PI 3-Kinase C2γ Monoclonal Antibody

<b>Catalog No</b>	BYmab-15051
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	PIK3C2G
<b>Protein Name</b>	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit gamma
<b>Immunogen</b>	Synthesized peptide derived from the N-terminal region of human PI 3-Kinase C2 γ .
<b>Specificity</b>	PI 3-Kinase C2 γ Monoclonal Antibody detects endogenous levels of PI 3-Kinase C2 γ protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	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
<b>Observed Band</b>	160kD
<b>Cell Pathway</b>	Membrane ; Peripheral membrane protein .
<b>Tissue Specificity</b>	Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas.
<b>Function</b>	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.,

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## 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],

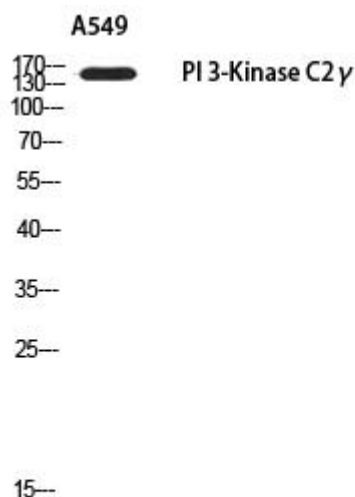
## matters needing attention

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 C2  $\gamma$  Monoclonal Antibody