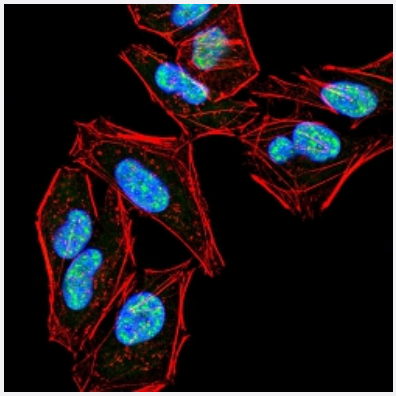
PLCG2 (phospho Y753) monoclonal antibody, clone 3A8B6

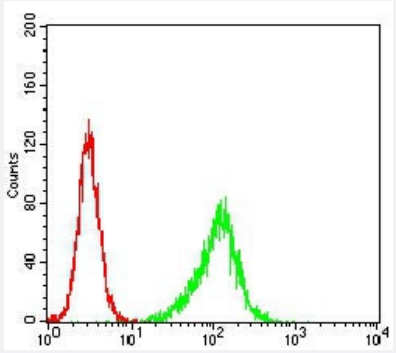
Catalog # MAB16643 Size 100 ug

Applications



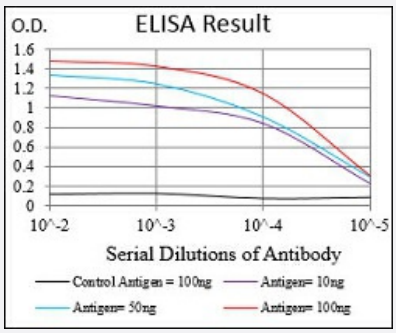
Immunocytochemistry

Immunocytochemical staining of Hela cells with PLCG2 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



Flow Cytometry

Flow cytometric analysis of Hela cells with PLCG2 monoclonal antibody (green) and negative control (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of PLCG2 monoclonal antibody, clone 3A8B6.

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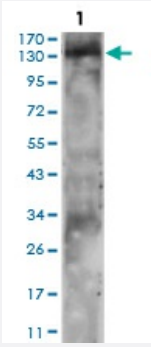

Western Blot (Cell lysate)

Western blot analysis using PLCG2 monoclonal antibody against A431 cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of human PLCG2.
Immunogen	A synthetic peptide corresponding to amino acid surrounding Y753 of human PLCG2.
Host	Mouse
Theoretical MW (kDa)	148
Reactivity	Human
Form	Liquid
Isotype	IgG2b
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Western Blot (Cell lysate)

  Western blot analysis using PLCG2 monoclonal antibody against A431 cell lysate.

Gene Info — PLCG2

Entrez GeneID	5336
Gene Name	PLCG2
Gene Alias	-
Gene Description	phospholipase C, gamma 2 (phosphatidylinositol-specific)
Omim ID	600220
Gene Ontology	Hyperlink
Gene Summary	Enzymes of the phospholipase C family catalyze the hydrolysis of phospholipids to yield diacylglycerols and water-soluble phosphorylated derivatives of the lipid head groups. A number of these enzymes have specificity for phosphoinositides. Of the phosphoinositide-specific phospholipase C enzymes, C-beta is regulated by heterotrimeric G protein-coupled receptors, while the closely related C-gamma-1 (PLCG1; MIM 172420) and C-gamma-2 enzymes are controlled by receptor tyrosine kinases. The C-gamma-1 and C-gamma-2 enzymes are composed of phospholipase domains that flank regions of homology to noncatalytic domains of the SRC oncogene product, SH2 and SH3.[supplied by OMIM
Other Designations	phospholipase C gamma 2|phospholipase C, gamma 2|phospholipase C, gamma 2 (phosphatidylyinositol-specific)

Pathway

- B cell receptor signaling pathway
- Calcium signaling pathway

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- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Glioma
- Inositol phosphate metabolism
- Leukocyte transendothelial migration
- Metabolic pathways
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- VEGF signaling pathway
- Vibrio cholerae infection

Disease

- Bipolar Disorder
- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- HIV Infections
- Mental Disorders
- Ovarian cancer
- Tobacco Use Disorder

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