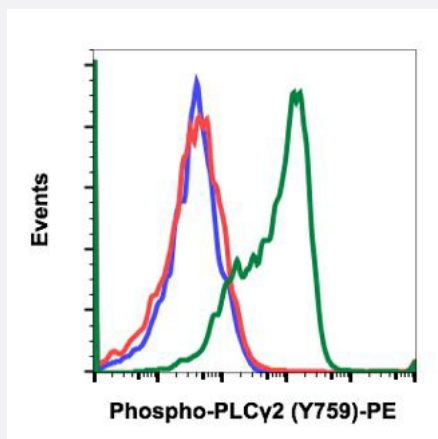


# PLCG2 (phospho Y759) monoclonal antibody, clone G3 (PE)

Catalog # MAB19036      Size 10 Reactions

## Applications



### Flow Cytometry

Flow cytometric analysis of Ramos cells unstained treated with imatinib (blue) or stained and treated with imatinib (red) or treated with pervanadate (green) using PLCG2 (phospho Y759) monoclonal antibody (PE).

## Specification

<b>Product Description</b>	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human PLCG2.
<b>Immunogen</b>	A synthetic phosphopeptide corresponding to residues surrounding Y759 of human PLCG2.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Conjugation</b>	PE
<b>Purification</b>	Protein A/G Purification
<b>Isotype</b>	IgG1k
<b>Recommend Usage</b>	Flow Cytometry (5 uL/10 <sup>6</sup> cells or 0.05 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).

**Storage Instruction**

Store at 2-8°C.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Flow Cytometry

Flow cytometric analysis of Ramos cells unstained treated with imatinib (blue) or stained and treated with imatinib (red) or treated with pervanadate (green) using PLCG2 (phospho Y759) monoclonal antibody (PE).

## Gene Info — PLCG2

**Entrez GeneID**[5336](#)**Gene Name**

PLCG2

**Gene Alias**

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**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 (phosphatidylinositol-specific)

## Pathway

- [B cell receptor signaling pathway](#)
- [Calcium signaling pathway](#)
- [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](#)