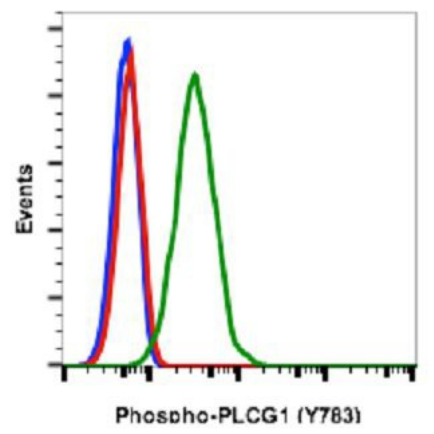
PLCG1 (phospho Y783) monoclonal antibody, clone C4 (FITC)

Catalog # MAB19023 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of Hela cells unstained imatinib treated cells (blue) or stained treated with imatinib (red) or with pervanadate (green) using PLCG1 (phospho Y783) monoclonal antibody (FITC).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human PLCG1.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Y783 of human PLCG1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Conjugation	FITC
Purification	Protein A/G Purification
Isotype	IgG1k
Recommend Usage	Flow Cytometry (5 uL/10^6 cells or 0.05 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).

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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

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Gene Info — PLCG1

Entrez GeneID	5335
Gene Name	PLCG1
Gene Alias	PLC-II, PLC1, PLC148, PLCgamma1
Gene Description	phospholipase C, gamma 1
Omim ID	172420
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucleotide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	1-phosphatidyl-D-myo-inositol-4,5-bisphosphate|1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase gamma 1|OTTHUMP00000031787|OTTHUMP00000178982|PLC-gamma-1|inositol trisphosphohydrolase|monophosphatidylinositol phosphodiesterase|phosphatidylinositol

Pathway

- Calcium signaling pathway
- Epithelial cell signaling in Helicobacter pylori infection

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- 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
- T cell receptor signaling pathway
- VEGF signaling pathway
- Vibrio cholerae infection

Disease

- Bipolar Disorder
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- HIV Infections
- Kidney Failure
- Mental Disorders

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- Multiple Sclerosis

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