



PLC γ 2 Monoclonal Antibody

Catalog No	YP-mAb-02763
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PLCG2
Immunogen	The antiserum was produced against synthesized peptide derived from human PLCG2. AA range:1186-1235
Specificity	PLC γ 2 Monoclonal Antibody detects endogenous levels of PLC γ 2 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	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	Phospholipase C gamma 2;Phospholipase C IV;PLC gamma 2;PLC IV;PLC γ 2; PLCG2;PLC γ 2;1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-2;Phosphoinositide phospholipase C-gamma-2;Phospholipase C-IV; PLC-IV;Phospholipase C-gamma-2;PLC-gamma-2
Observed Band	147kD
Calculated Molecular Weight	147kD
Cell Pathway	intracellular,cytosol,plasma membrane,extracellular exosome,
Tissue Specificity	Lymph,Lymphoblast,Spleen,T-cell,
Function	catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1D-myo-inositol 1,4,5-trisphosphate + diacylglycerol.,cofactor:Calcium.,function:The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. It is a crucial enzyme in transmembrane signaling.,PTM:Phosphorylated on tyrosine residues; upon ligand-induced activation of a variety of growth factor receptors and immune system receptors. Increases phospholipase activity.,similarity:Contains 1 C2 domain., similarity:Contains 1 PH domain.,similarity:Contains 1 PI-PLC X-box domain.,



similarity:Contains 1 PI-PLC Y-box domain.,similarity:Contains 1 SH3 domain.,
similarity:Contains 2 SH2 domains.,

Background

The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3. [provided by RefSeq, Mar 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 PLC γ 2
Monoclonal Antibody

PLCG2 --

-- 130

-- 95

-- 72

-- 55

-- 34

-- 19
(kD)

