10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PLCG2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1992a

Specification

PLCG2 Antibody - Product Information

Application	**E, WB, IF, FC**
Primary Accession	P16885
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**148kDa KDa**

Description
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.

Immunogen
Synthesized peptide of human PLCG2 (AA: phospho-Tyrosine 753 of human Phospholipase Cg2(cERDINSLpYDVSRMYV)).

Formulation
Purified antibody in PBS with 0.05% sodium azide.

PLCG2 Antibody - Additional Information

Gene ID 5336

Other Names
1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase gamma-2, 3.1.4.11, Phosphoinositide phospholipase C-gamma-2, Phospholipase C-IV, PLC-IV, Phospholipase C-gamma-2, PLC-gamma-2, PLCG2

Dilution
E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

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PLCG2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PLCG2 Antibody - Protein Information

Name PLCG2 (HGNC:9066)

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.

Cellular Location
Membrane raft {ECO:0000250|UniProtKB:Q8CIH5}.

PLCG2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture