

**PLCG2 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2065a****Specification****PLCG2 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>E, WB, IF, FC</b>   |
| Primary Accession | <a href="#">P16885</a> |
| Reactivity        | <b>Human</b>           |
| Host              | <b>Mouse</b>           |
| Clonality         | <b>Monoclonal</b>      |
| Isotype           | <b>IgG1</b>            |
| Calculated MW     | <b>147.9kDa KDa</b>    |

**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**

Purified recombinant fragment of human PLCG2 (AA: 826-985) expressed in E. Coli.

**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**

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 Cytometry](#)
- [Cell Culture](#)