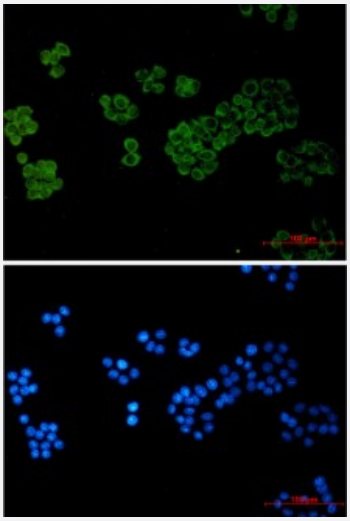
RecomAb™

# PLCG1 recombinant monoclonal antibody, clone R01-6B4

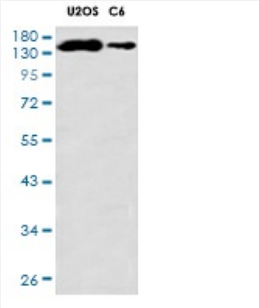
Catalog # RAB01386 Size 100 uL

## Applications



### Immunocytochemistry

Immunocytochemistry staining of HeLa cells with PLCG1 recombinant monoclonal antibody, clone R01-6B4 (Cat # RAB01386).




### Western Blot

Western blot analysis of Phospho-lipase C gamma 1/PLCgamma1 in U2OS, C6 lysates using Phospho-lipase C gamma 1/PLCgamma1 antibody.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human PLCG1. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to human PLCG1. |
| **Theoretical MW (kDa)** | Calculated MW: 149 k |

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| | |
|---|---|
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunocytochemistry<br>Immunofluorescence<br>Immunoprecipitation<br>Western Blot<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at 4°C. For longer storage, aliquot and store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemistry staining of HeLa cells with PLCG1 recombinant monoclonal antibody, clone R01-6B4 (Cat # RAB01386).
- Immunoprecipitation
- Western Blot

  Western blot analysis of Phospho-lipase C gamma 1/PLCgamma1 in U2OS, C6 lysates using Phospho-lipase C gamma 1/PLCgamma1 antibody.

## Gene Info — PLCG1

| | |
|---|---|
| **Entrez GeneID** | 5335 |
| **Protein Accession#** | P19174 |
| **Gene Name** | PLCG1 |

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| | |
|---|---|
| **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
- 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

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- 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
- Multiple Sclerosis

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