# PLCG1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PLCG1, Polyclonal Antibody |
| **Full Product Name** | PLCG1 Polyclonal Antibody |
| **Product Gene Name** | anti-PLCG1 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3. |
| **Purity/Purification** | Affinity Purification |
| **Preparation and Storage** | Store at -20 degree C. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 148kDa |
| **OMIM** | 172420 |
| **3D Structure** | ModBase 3D Structure for P19174 |
| **Immunogen** | A synthetic peptide of human PLCG1. |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-PLCG1 antibody** | Western Blot (WB), Immunofluorescence (IF) |
| **Application Notes for anti-PLCG1 antibody** | WB: 1:500-1:2000<br>IF: 1:50-1:200 |
| **Related Product Information for anti-PLCG1 antibody** | 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. |
| **Other Notes** | Small volumes of anti-PLCG1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PLCG1 purchase** | MBS8571591 is an antibody targeting PLCG1. Also known as PLCG1 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLCG1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33598948 |
| **NCBI GeneID** | 5335 |
| **NCBI Accession #** | NP_002651.2 |

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| **UniProt Primary Accession #** | P19174 |
| **UniProt Related Accession #** | P19174 |
| **GenBank Nucleotide #** | NP_002651.2 |
| **NCBI Official Full Name** | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1 isoform a |
| **NCBI Official Synonym Full Names** | phospholipase C gamma 1 |
| **NCBI Official Symbol** | PLCG1 |
| **NCBI Official Synonym Symbols** | PLC1; NCKAP3; PLC-II; PLC148; PLCgamma1 |
| **UniProt Protein Name** | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1 |
| **UniProt Synonym Protein Names** | PLC-148; Phosphoinositide phospholipase C-gamma-1; Phospholipase C-II; PLC-II; Phospholipase C-gamma-1 |
| **Protein Family** | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase |
| **UniProt Gene Name** | PLCG1 |
| **UniProt Synonym Gene Names** | PLC1; PLC-II; PLC-gamma-1 |
| **UniProt Entry Name** | PLCG1_HUMAN |
| **NCBI Protein Information** | 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1 |
| **UniProt Comments for PLCG1** | PLCG1: a calcium dependent phosphatidylinositol-specific phospholipase C. The activated enzyme produces the second messenger molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylated and activated by tyrosine kinases in response to signaling through a variety of growth factor receptors and immune system receptors.<br><br>Protein type: EC 3.1.4.11; Carbohydrate Metabolism - inositol phosphate; Motility/polarity/chemotaxis; Phospholipase<br><br>Chromosomal Location of Human Ortholog: 20q12-q13.1<br><br>Cellular Component: signalosome; ruffle; cell projection; lamellipodium; cytoplasm; plasma membrane; intercellular junction; cytosol<br><br>Molecular Function: protein binding; glutamate receptor binding; neurotrophin TRKA receptor binding; receptor signaling protein activity; calcium ion binding; receptor tyrosine kinase binding; phospholipase C activity; protein kinase binding; phosphoinositide phospholipase C activity<br><br>Biological Process: epidermal growth factor receptor signaling pathway; axon guidance; cell migration; inositol phosphate metabolic process; fibroblast growth factor receptor signaling pathway; viral reproduction; nerve growth factor receptor signaling pathway; activation of MAPKK activity; in utero embryonic development; phospholipid catabolic process; cytokine and chemokine mediated signaling pathway; positive regulation of blood vessel endothelial cell migration; calcium-mediated signaling; signal transduction; T cell receptor signaling pathway; positive regulation of angiogenesis; phospholipase C activation; innate immune response; positive regulation of release of sequestered calcium ion into cytosol; vascular endothelial growth factor receptor signaling pathway; blood coagulation; leukocyte migration |
| **Research Articles on PLCG1** | **1.** novel insight into autophagy regulation by PLCgamma1 in colon cancer and hepatocellular carcinoma cells |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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