PLCG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PLCG1, Polyclonal Antibody
Full Product Name	PLCG1 (Center) Rabbit pAb
Product Gene Name	anti-PLCG1 antibody
Product Synonym Names	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase gamma-1; PLC-148; Phosphoinositide phospholipase C-gamma-1; Phospholipase C-II; PLC-II; Phospholipase C-gamma-1; PLC-gamma-1; PLCG1; PLC1
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	172420
3D Structure	ModBase 3D Structure for P19174
Immunogen	This PLCG1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 456-488 amino acids from the central region of human PLCG1.
Cellular Localization	Cell Projection
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PLCG1 antibody	Western Blot (WB)
Application Notes for anti-PLCG1 antibody	WB: 1:2000
Related Product Information for anti-PLCG1 antibody	MBS8557397 is an antibody targeting PLCG1. Also known as PLCG1 (Center) Rabbit pAb. Reactive in Human. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	33598948
NCBI GeneID	5335
NCBI Accession #	NP_002651.2
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
NCBI Summary for PLCG1	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, Jul 2008]
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. Protein type: EC 3.1.4.11; Carbohydrate Metabolism - inositol phosphate; Motility/polarity/chemotaxis; Phospholipase Chromosomal Location of Human Ortholog: 20q12-q13.1 Cellular Component: signalosome; ruffle; cell projection; lamellipodium; cytoplasm; plasma membrane; intercellular junction; cytosol 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 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
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