PLCG1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PLCG1, Monoclonal Antibody
Full Product Name	Mouse Monoclonal Antibody to PLCG1
Product Gene Name	anti-PLCG1 antibody
Product Synonym Names	PLC1; NCKAP3; PLC-II; PLC148; PLCgamma1
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3H1C10
Host	Mouse
Molecular Weight	148.5kDa
OMIM	172420
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PLCG1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS)
Application Notes for anti-PLCG1 antibody	Western blot using Recombinant protein Western blot using Transfection expressed protein Western blot using Cell lysate
Related Product Information for anti-PLCG1 antibody	MBS8528434 is an antibody targeting PLCG1. Also known as Mouse Monoclonal Antibody to PLCG1. Host: Mouse.
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 #	958972204
NCBI GeneID	5335
NCBI Accession #	JAP00110.1
UniProt Secondary Accession #	Q2V575; B7ZLY7; B9EGH4; E1P5W4
UniProt Related Accession #	P19174
NCBI Official Full Name	PLCG1, partial
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; PLC-gamma-1
Protein Family	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase
UniProt Gene Name	PLCG1
UniProt Synonym Gene Names	PLC1; PLC-II; PLC-gamma-1
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	Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand-mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, FGFR1, FGFR2, FGFR3 and FGFR4. Plays a role in actin reorganization and cell migration.
Research Articles on PLCG1	**1.** Syk-induced signals in bone marrow stromal cell lines are mediated by phospholipase C gamma1 (PLCgamma1) in osteogenesis and PLCgamma2 in adipogenesis.
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