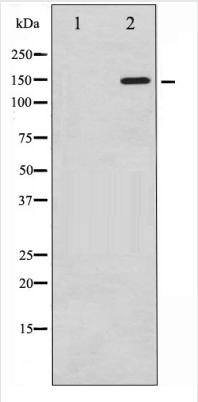
PLCG1 Antibody

PRODUCT OVERVIEW

Product Name	PLCG1, Antibody
Full Product Name	Phospho-PLCG1 (Tyr771) Antibody
Product Gene Name	anti-PLCG1 antibody
Product Synonym Names	1-phosphatidylinositol-4, 5-bisphosphate phosphodiesterase gamma 1; EC 3.1.4.11; PLC-148; PLC-II; PLC-gamma1; PLC1; PLCG-1; Phospholipase C-gamma-1
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Phospho-PLCG1 (Tyr771) Antibody detects endogenous levels of PLCG1 only when phosphorylated at Tyrosine 771
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	155kDa
OMIM	172420
3D Structure	ModBase 3D Structure for P19174
Immunogen	A synthesized peptide derived from human PLCG1 around the phosphorylation site of Tyrosine 771
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PLCG1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PLCG1 antibody	WB: 1:500-1:2000 IHC: 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	MBS8511392 is an antibody targeting PLCG1. Also known as Phospho-PLCG1 (Tyr771) Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-PLCG1 antibody
Western blot analysis of PLCG1 phosphorylation expression in EGF treated COS7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

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 Secondary Accession #	Q2V575; B7ZLY7; B9EGH4; E1P5W4
UniProt Related Accession #	P19174
GenBank Nucleotide #	NM_002660.2
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; 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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