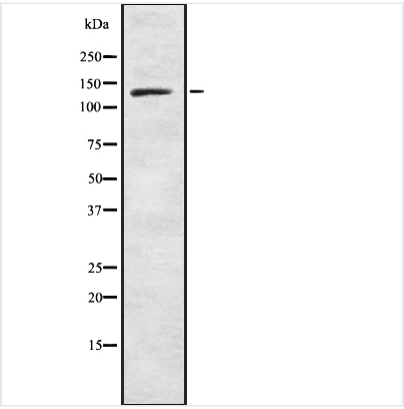
PLCB3 Antibody

PRODUCT OVERVIEW

Product Name	PLCB3, Antibody
Full Product Name	PLCB3 Antibody
Product Gene Name	anti-PLCB3 antibody
Molecular Weight	131,205 Da
OMIM	600230
3D Structure	ModBase 3D Structure for Q01970
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-PLCB3 antibody	MBS8517528 is an antibody targeting PLCB3. Also known as PLCB3 Antibody.
Other Notes	Small volumes of anti-PLCB3 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.



Western Blot (WB) of anti-PLCB3 antibody
Western blot analysis PLCB3 using HuvEc whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLCB3. It may not necessarily be applicable to this product.

NCBI GI #	11386139
NCBI GeneID	5331
NCBI Accession #	NP_000923.1
UniProt Primary Accession #	Q01970
UniProt Secondary Accession #	Q8N1A4; A5PKZ6; G5E960
UniProt Related Accession #	Q01970
GenBank Nucleotide #	NM_000932.2
NCBI Official Full Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3 isoform 1

NCBI Official Synonym Full Names	phospholipase C beta 3
NCBI Official Symbol	PLCB3
UniProt Protein Name	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3
UniProt Synonym Protein Names	Phosphoinositide phospholipase C-beta-3; Phospholipase C-beta-3; PLC-beta-3
Protein Family	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase
UniProt Gene Name	PLCB3
UniProt Synonym Gene Names	PLC-beta-3
NCBI Protein Information	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-3
NCBI Summary for PLCB3	This gene encodes a member of the phosphoinositide phospholipase C beta enzyme family that catalyze the production of the secondary messengers diacylglycerol and inositol 1,4,5-triphosphate from phosphatidylinositol in G-protein-linked receptor-mediated signal transduction. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]
UniProt Comments for PLCB3	The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes.
Research Articles on PLCB3	**1.** Data suggest that 300-residue C-terminal domain of PLCB3 promotes adsorption to phospholipid monolayer/membrane bilayer and is required for spatial organization/adsorption of PLCB3 on membrane surface; defects in phosphatidylinositol 4,5-bisphosphate (PIP2) hydrolysis alter monolayer adsorption, thus, suggesting role of active site in this process; PLCB3 is preferentially adsorbed to region of bilayer enriched with PIP2.
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