

Recombinant Human PLCB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLCB1-5315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLCB1 MS Standard C13 and N15-labeled recombinant protein (NP_877398) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	133.5 kDa
AA Sequence	MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWDDSTIVTPIILRTDPQGFFFYWTDQ NKETELLDLSLVKDARCGRHAKAPKDPKRLRELLDVGNIGRLEQRMITVVYGPDLVNIS HLNLVAFQEEVAKWEVTNEVFLATNLLAQNMSRDAFLEKAYTKLKLQVTPEGRIPLK NIYRLFSADRKRVTALEACSLPSSRND SIPQEDFTPEVYRVFLNNLCPRPEIDNIFSE FGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPLKQEQVQVLEIKYEPNNSLARKG QISVDGFMRYLSGEENGVV SPEKLDL NEDMSQPLSHYFINSSHNTYLTAGQLAGNS SVEMYRQVLLSGCRCVELDCWKGR TAE EEPVITHGFTMTTEISFKEVIEAIAECAFKT

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SPFPILLSFENHVDS PKQQA KMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLM
 YKILVKNKKKSHKSSEGS GKKKLSEQASNTYSDSSSMFEPSSPGAGEADTESDDDD
 DDDDC KSSMDEGTAGSEAMATEEMSNLVNYIQPVKFESFEISKRNKSFEMSSFV
 ETKGLEQLTKSPVEFVEYNKMQLSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNF
 QTMDLAMQINMGMYEYNGKSGYRLKPEFMRRPDKHFDPFTEGIVDGIVANTLSVKII
 SGQFLSDKKVGT YVEVDMFGLPVDTRRKAFKTKTSQGNVNPVWEEEPVFKKVV L
 PTLACLRIAVYEEGGKFIGHRILPVQAIRPGYHYICLRNERNQPLTLPV FVYIEVKDY
 VPDTYADVIEALS NPIRYVNLMEQRAKQLAALTLEDEEEVKKEADPGETPSEAPSEA
 RTTPAENG VNH TTTLT PKPPSQALHSQPAPGSVKAPAKTEDLIQSVLTEVEAQ TIEEL
 KQQKSFVKLQKKHYKEMKDLVKRHHKKT TDLIKEHTTKYNEIQNDYLRRRAALEKSA
 KKDSKKKSEPSSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQQLLNLRQEY YSE
 KYQKREHIKLLIQKLT DVAEECQNNQLKKLKEICEKEKKELKKKMDKKRQE KITEAKS
 KDKSQMEEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIRQQILDEKPKGE
 GSSSFLSETCHEDPSVSPNFTPPNPQALKWTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [PLCB1 phospholipase C beta 1 \[Homo sapiens \(human\) \]](#)

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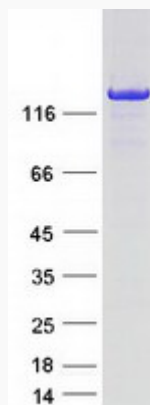
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Official Symbol	PLCB1
Synonyms	PLCB1; phospholipase C, beta 1 (phosphoinositide-specific); 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1; KIAA0581; PLC I; PLC154; PLC-beta-1; phospholipase C-I; phosphoinositidase C; phospholipase C-beta-1; inositoltrisphosphohydrolase; triphosphoinositide phosphodiesterase; phosphoinositide phospholipase C-beta-1; monophosphatidylinositol phosphodiesterase; 1-phosphatidyl-D-myo-inositol-4,5-bisphosphate; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta 1; 1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase beta-1; PLC-I; EIEE12; PI-PLC; PLCB1A; PLCB1B; PLC-154; FLJ45792;
Gene ID	23236
mRNA Refseq	NM_182734
Protein Refseq	NP_877398
MIM	607120
UniProt ID	Q9NQ66

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SDS-PAGE

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