

## Product datasheet for TP316150

### Phospholipase C beta 1 (PLCB1) (NM\_182734) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phospholipase C, beta 1 (phosphoinositide-specific) (PLCB1), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216150 representing NM_182734 Red=Cloning site Green=Tags(s)

MAGAQPVGHALQLKPVCSDSLKKGTKFVKWDDSTIVTPIILRTDPQGGFFFWTDQNKETELLDLSLVK  
DARCGRHAKAPKDPKLRRELLDVGNIQRLEQRMITVVYGPDLVNISHLNLVAFQEEVAKEWTNEVFSLATN  
LLAQNMRSRDAFLEKAYTKLKLQVTEGRIPLKNIYRFLSADRKRVTALEACSLPSSRNDSIPQEDFTPE  
VYRVFLNNLCPRPEIDNIFSEFGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPLKQEQVQVLIKEYEP  
NNSLARKGQISVDGFMRYLSGEENGWVSPEKLDLNEEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYR  
QVLLSGCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHVDSPKQ  
QAKMAEYCRLIFGDALLMEPLEKYPLESGVPLPSPMDLKYKILVKNKKKSHKSSSEGSGKKLSEQASNTY  
SDSSSMFEPSSPGAGEADTESDDDDDDDDCKKSSMDEGTAGSEAMATEEMS NLVNIQPVKFESFEISKK  
RNKSFEMSSFVETKGLEQLTKSPVEFVEYNKMQLSRIYKPGTRVDSSNYMPQLFWNAGCQMVALNFQTM  
LAMQINMGMYEYNGKSGYRLKPEFMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTVEVD  
MFGLPVDTRRKAFKTKTSQGNVNPVWEEPIVFKKVLPTLA CLRIAVYEEGGKFIGHRILPVQAIRPG  
YHYICLRNERNQPLTLPVAVFYIEVKDYVPDTPYADVIEALS NPIRYVNLMEQRAKQLAALTLEDEEEVKK  
EADPGETPSEAPSEARTTPAENGVNHTTTLTPKPPSQALHSQPAPGSVKAPAKTEDLIQSVLTEVEAQT  
EELKQKQSFVKLQKKHYKEMKDLVKRHHKTTDLIKEHTTKYNEIQNDYLRRRAALEKS AKKDSKKKSEP  
SSPDHGSSTIEQDLAALDAEMTQKLIDLKDKQQQLLNLRQEYQYSEKYQKREHIKLLIQKLTDAEECC  
NNQLKLLKEICEKEKELKKKMDKKRQEKITEAKSKDKSQMEEKTEMIRSYIQEVVQYIKRLEEAQSKR  
QEKLVEKHKEIRQQILDEKPKGEGSSSFLSETCHEDPSVSPNFTPPNPQALKW

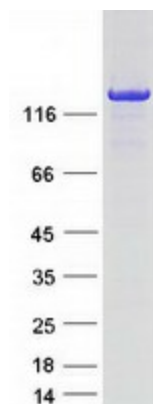
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	133.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_877398</a>
<b>Locus ID:</b>	23236
<b>UniProt ID:</b>	<a href="#">Q9NQ66</a>
<b>RefSeq Size:</b>	6823
<b>Cytogenetics:</b>	20p12.3
<b>RefSeq ORF:</b>	3519
<b>Synonyms:</b>	DEE12; EIEE12; PI-PLC; PLC-154; PLC-beta-1; PLC-I; PLC154; PLCB1A; PLCB1B
<b>Summary:</b>	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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Calcium signaling pathway, Chemokine signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Inositol phosphate metabolism, Long-term depression, Long-term potentiation, Melanogenesis, Metabolic pathways, Phosphatidylinositol signaling system, Vascular smooth muscle contraction, Wnt signaling pathway

**Product images:**

Coomassie blue staining of purified PLCB1 protein (Cat# TP316150). The protein was produced from HEK293T cells transfected with PLCB1 cDNA clone (Cat# [RC216150]) using MegaTran 2.0 (Cat# [TT210002]).