Recombinant Full Length Human PLB1 Protein, C-Flag-tagged

Cat. No. PLB1-1311HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PLB1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a membrane-associated phospholipase that displays lysophospholipase and phospholipase A2 activities through removal of sn-1 and sn-2 fatty acids of glycerophospholipids. In addition, it displays lipase and retinyl ester hydrolase activities. The encoded protein is highly conserved and is composed of a large, glycosylated extracellular domain composed of four tandem homologous domains, followed by a hydrophobic segment that anchors the enzyme to the membrane and a short C-terminal cytoplasmic tail. This gene has been identified as a candidate rheumatoid arthritis risk gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	162.9 kDa
AA Sequence	MGLRPGIFLLELLLLLGQGTPQIHTSPRKSTLEGQLWPETLKNSPFPCNPNKLGVNM PSKSVHSLKPSDI KFVAAIGNLEIPPDPGTGDLEKQDWTERPQQVCMGVMTVLSDII RYFSPSVPMPVCHTGKRVIPHDGAED LWIQAQELVRNMKENLQLDFQFDWKLINVF FSNASQCYLCPSAQQNGLAAGGVDELMGVLDYLQQEVPRA FVNLVDLSEVAEVSR QYHGTWLSPAPEPCNCSEETTRLAKVVMQWSYQEAWNSLLASSRYSEQESFTVVF

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	QPFFYETTPSLHSEDPRLQDSTTLAWHLWNRMMEPAGEKDEPLSVKHGRPMKCPS QESPYLFSYRNSNYL TRLQKPQDKLEVREGAEIRCPDKDPSDTVPTSVHRLKPADIN VIGALGDSLTAGNGAGSTPGNVLDVLTQ YRGLSWSVGGDENIGTVTTLANILREFNP SLKGFSVGTGKETSPNAFLNQAVAGGRAEDLPVQARRLVDL MKNDTRIHFQEDWKI ITLFIGGNDLCDFCNDLVHYSPQNFTDNIGKALDILHAEVPRAFVNLVTVLEIVN LREL YQEKKVYCPRMILRSLCPCVLKFDDNSTELATLIEFNKKFQEKTHQLIESGRYDTRED FTVVVQPF FENVDMPKTSEGLPDNSFFAPDCFHFSSKSHSRAASALWNNMLEPVG QKTTRHKFENKINITCPNQVQPF LRTYKNSMQGHGTWLPCRDRAPSALHPTSVHAL RPADIQVVAALGDSLTAGNGIGSKPDDLPDVTTQYRG LSYSAGGDGSLENVTTLPNI LREFNRNLTGYAVGTGDANDTNAFLNQAVPGAKAEDLMSQVQTLMQKMKD DHRV NFHEDWKVITVLIGGSDLCDYCTDSNLYSAANFVDHLRNALDVLHREVPRVLVNLVD FLNPTIMRQ VFLGNPDKCPVQQASVLCNCVLTLRENSQELARLEAFSRAYRSSMRE LVGSGRYDTQEDFSVVLQPFFQN IQLPVLADGLPDTSFFAPDCIHPNQKFHSQLAR ALWTNMLEPLGSKTETLDLRAEMPITCPTQNEPFLRT PRNSNYTYPIKPAIENWGSD FLCTEWKASNSVPTSVHQLRPADIKVVAALGDSLTTAVGARPNNSSDLPT SWRGLS WSIGGDGNLETHTTLPNILKKFNPYLLGFSTSTWEGTAGLNVAAEGARARDMPAQA WDLVERMK NSPDINLEKDWKLVTLFIGVNDLCHYCENPEAHLATEYVQHIQQALDIL SEELPRAFVNVVEVMELASLY QGQGGKCAMLAAQNNCTCLRHSQSSLEKQELKKV NWNLQHGISSFSYWHQYTQREDFAVVVQPFFQNTLT PLNERGDTDLTFFSEDCFH FSDRGHAEMAIALWNNMLEPVGRKTTSNNFTHSRAKLKCPSPESPYLYTLR NSRLLPDQAEEAPEVLYWAVPVAAGVGLVVGIIGTVVWRCRRGGRREDPPMSLRTV ALTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.

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Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Full Length	Full L.

GENE INFORMATION

Gene Name	PLB1 phospholipase B1 [Homo sapiens (human)]
Official Symbol	PLB1
Synonyms	PLB; PLB/LIP
Gene ID	151056
mRNA Refseq	NM_153021.5
Protein Refseq	NP_694566.4
MIM	610179
UniProt ID	Q6P1J6

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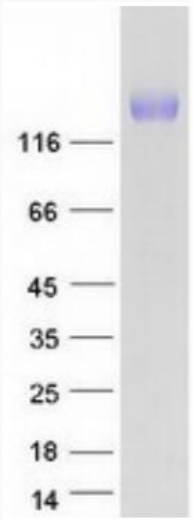

Coomassie blue staining of purified PLB1 protein.

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