

Recombinant Full Length Human PLCG2 Protein, C-Flag-tagged

Cat. No. PLCG2-618HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PLCG2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a transmembrane signaling enzyme that catalyzes the conversion of 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate to 1D-myo-inositol 1,4,5-trisphosphate (IP3) and diacylglycerol (DAG) using calcium as a cofactor. IP3 and DAG are second messenger molecules important for transmitting signals from growth factor receptors and immune system receptors across the cell membrane. Mutations in this gene have been found in autoinflammation, antibody deficiency, and immune dysregulation syndrome and familial cold autoinflammatory syndrome 3.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	147.7 kDa
AA Sequence	MSTTVNVDSLAEYEKSIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKT ADKIEGFLDIMEI KEIRPGKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADS KEDAVNWLSGLKILHQEAMNASTPT IIESWLRKQIYSVDQTRRNSISLRELKTILPLIN FKVSSAKFLKDKFVEIGA HKDELSFEQFHLFYKKLM FEQQKSILDEFKKDSSVFILGN

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TDRPDASAVYLRDFQRFLIHEQQEHWAQDLNKVRERMTKFIDDTMRET AEPFLFVD
 EFLTYLFSRENSIWDEKYDAVDMQDMNNPLSHYWISSSHNTYLTGDQLRSESSPEA
 YIRCLR MGCRCIELDCWDGPDGKPVYHGWTRTTKIKFDDVVQAIKDHAFTSSFPV
 ILSIEEHCSVEQQRHMAKA FKEVFGDLLLTKEPTASADQLSPSQLREKIIKHKKLGP
 RGDVDVNMEDKKDEHKQQGELYMWDSIDQK WTRHYCAIADAKLSFSDDIEQTMEE
 EVPQDIPPTELHFGEKWFHKKVEKRTSAEKLLQEYCMETGGKDGTLVRESETFPN
 DYTLSFWRSGRVQHCRIRSTMEGGTLKYYLTDNLTFSSYALIQHYRETHLRCAEFEL
 R LTDPVPNPNPHESKPWYYDSLRSGEAEDMLMRIPRDGAFLIRKREGSDSYAITFR
 ARGKVKHCRINRDGR HFVLGTSAYFESLVELVSYYEKHSLYRKMLRYPVTPELLE
 RYNMERDINSLYDVSRMYVDPSEINPSMP QRTVKALYDYKAKRSDELSFCRGALIH
 NVSKEPGGWWKGDYGTRIQQYFPSNYVEDISTADFEELKQII EDNPLGSLCRGILD
 LNTYNVVKAPQGKNQKSFVFILEPKQQGYPPVEFATDRVEELFEWFQSIREITWKI D
 TKENNMKYWEKNQSIIELSDLVVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQ
 KPVDLLKYNQK GLTRVYPKGQRVDSSNYDPFRLWLCSQMVALNFQTADKYMQM
 NHALFSLNGRTGYVLQPESMRTEKYDP MPPESSQRKILMTLTVKVLGARHLPKLGRS
 IACPFVEVEICGAEYDNNKFKTTVNDNGLSPIWAPTQEKV TFEIYDPNLAFLRFVY
 EEDMFSDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVL ESEE
 ELYSSCRQLRRRQEELNNQLFLYDTHQNLNRNANRDALVKEFSVNENQLQLYQEKCN
 KRLREKRVS
 SKFYSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
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	Druggable Genome
Protein Pathways	B cell receptor signaling pathway, Calcium signaling pathway, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Glioma, Inositol phosphate metabolism, Leukocyte transendothelial migration, Metabolic pathways, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Phosphatidylinositol signaling system, VEGF signaling pathway, Vibrio cholerae infection
Full Length	Full L.

GENE INFORMATION

Gene Name	PLCG2 phospholipase C gamma 2 [Homo sapiens (human)]
Official Symbol	PLCG2
Synonyms	FCAS3; APLAID; PLC-IV; PLC-gamma-2
Gene ID	5336
mRNA Refseq	NM_002661.5
Protein Refseq	NP_002652.2
MIM	600220

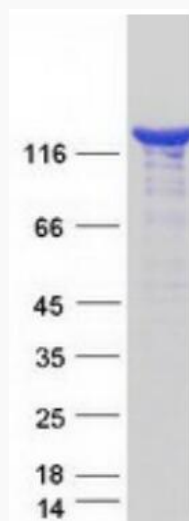
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UniProt ID

P16885



Coomassie blue staining of purified PLCG2 protein.

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