

Recombinant Human PLD2, GST-tagged

Cat. No. PLD2-679H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLD2(1 a.a. - 933 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene catalyzes the hydrolysis of phosphatidylcholine to phosphatidic acid and choline. The activity of the encoded enzyme is enhanced by phosphatidylinositol 4,5-bisphosphate and ADP-ribosylation factor-1. This protein localizes to the peripheral membrane and may be involved in cytoskeletal organization, cell cycle control, transcriptional regulation, and/or regulated secretion. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	132.3 kDa
AA Sequence	MTATPESLFPTGDELDSSQLQMESDEVDTLKEGEDPADRMHPFLAIYELQSLKVHPL VFAPGVPVTAQVVGTERY TSGSKVGTCTLYSVRLTHGDFSWTTKKKYRHFQELHR DLLRHKVLMSELLPLARFAVAYSPARDAGNREMPSLPRA GPEGSTRHAASKQKYLE NYLNCLLTMSFYRNYHAMTEFLEVSQLSFIPDLGRKGLEGMIRKRSGGHRVPGLTC CG RDQVCYRWSKRWL VVKDSFLLYMCLETGAISFVQLFDPGFEVQVGKRSTEARH GVRIDTSHRSLILKCSSYRQAR WWAQEITELAQGPGRDFLQLHRHDSYAPPRPGTL ARWVNGAGYFAAVADAILRAQEEIFITDWWLSPEVYLKRP AHSDDWRLDIMLKRK AEEGVRSILLFKEVELALGINSGYSKRALMLLHPNIKVMRHPDQVTLWAHHEKLLVV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DQ VVAFGLGGLDLAYGRWDDLHYRLTDLGDSSESAASQPPTPRPDSPATPDLSHNQ
 FFWLGKDYSNLITKDWVQLDRP FEDFIDRETTTPRMPWRDVGVVVHGLPARDLARH
 FIQRWNFTKTTKAKYKTPIYPYLLPKSTSTANQLPFTLPGGQ CTTVQVLRSDRWSA
 GTLENSILNAYLHTIRESQHFLYIENQFFISCSDGRTVLNKGDEIVDRILKAHKQGWC
 Y RVYVLLPLLPGFEGDISTGGGNSIQAILHFTYRTLGRGEYSILHRLKAAMGTAWRD
 YISICGLRTHGELGGHPVS ELIYIHSKVLIADDRTVIIGSANINDRSLLGKRDESELAVLIE
 DTETEPSLMNGAEYQAGRFALSLRKHCFCGVILG ANTRPDLDLRDPICDDFFQLWQD
 MAESNANIYEQIFRCLPSNATRSLRTLREYVAVEPLATVSPPLARSELTQVQ GHLVH
 FPLKFLEDESLLPPLGSKEGMIPLEVWT

Applications ELISA; WB-Re; AP; Array

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [PLD2 phospholipase D2 \[Homo sapiens \(human\) \]](#)

Official Symbol PLD2

Synonyms PLD2; phospholipase D2; PLD1C; hPLD2; choline phosphatase 2;
 phosphatidylcholine-hydrolyzing phospholipase D2; NP_001230037.1; EC 3.1.4.4;
 NP_002654.3

Gene ID [5338](#)

mRNA Refseq [NM_002663](#)

Protein Refseq [NP_002654](#)

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MIM	602384
UniProt ID	O14939
Chromosome Location	17p13.1
Pathway	Alpha-synuclein signaling; Arf6 downstream pathway; Arf6 trafficking events; CDC42 signaling events; EGFR1 Signaling Pathway
Function	N-acylphosphatidylethanolamine-specific phospholipase D activity; phosphatidylinositol binding; phospholipase D activity; protein binding

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