

# Mouse Monoclonal Antibody to PLD2

Purified Mouse Monoclonal Antibody

Catalog # AO2359a

## Product Information

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<b>Application</b>	WB, IHC, FC, ICC, E
<b>Primary Accession</b>	<a href="#">O14939</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	7E4D9
<b>Isotype</b>	Mouse IgG1
<b>Calculated MW</b>	105987
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human PLD2 (AA: 834-933) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Application Note</b>	ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400

## Additional Information

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<b>Gene ID</b>	5338
<b>Other Names</b>	Phospholipase D2, PLD 2, hPLD2, 3.1.4.4, Choline phosphatase 2, PLD1C, Phosphatidylcholine-hydrolyzing phospholipase D2, PLD2 ( <a href="#">HGNC:9068</a> )
<b>Dilution</b>	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Mouse Monoclonal Antibody to PLD2 is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

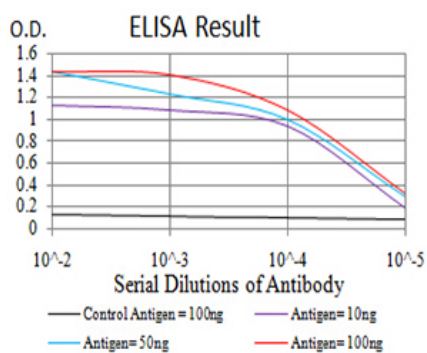
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<b>Name</b>	PLD2 ( <a href="#">HGNC:9068</a> )
<b>Function</b>	Function as phospholipase selective for phosphatidylcholine (PubMed: <a href="#">9582313</a> ). May have a role in signal-induced cytoskeletal regulation and/or endocytosis (By similarity).
<b>Cellular Location</b>	Cell membrane {ECO:0000250 UniProtKB:P97813}; Lipid-anchor {ECO:0000250 UniProtKB:P97813}
<b>Tissue Location</b>	Ubiquitous..

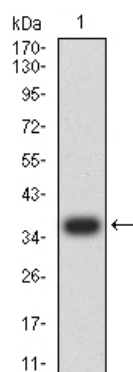
## References

1.Exp Mol Med. 2014 Dec 5;46:e124. ; 2.FEBS Lett. 2014 Aug 25;588(17):3251-8.;

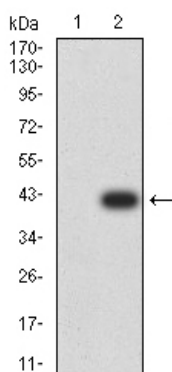
## Images



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

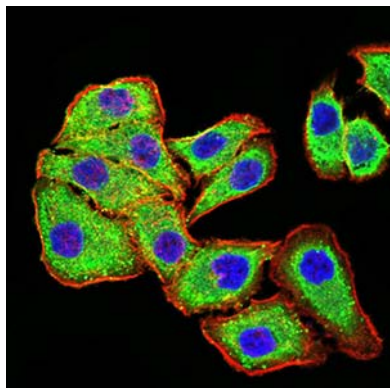
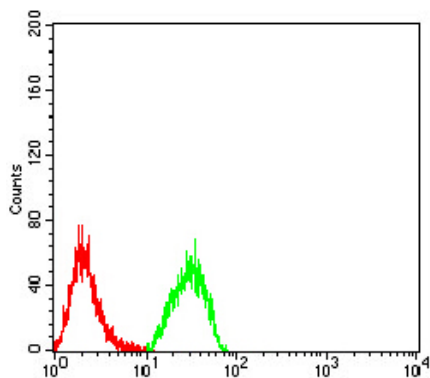


Western blot analysis using PLD2 mAb against human PLD2 (AA: 834-933) recombinant protein. (Expected MW is 37.4 kDa)

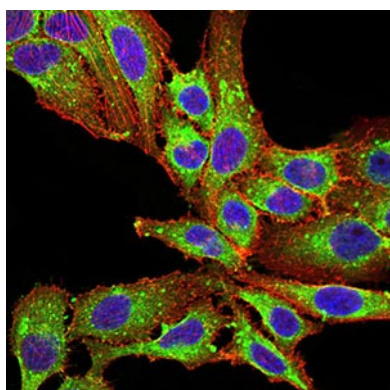


Western blot analysis using PLD2 mAb against HEK293 (1) and PLD2 (AA: 834-933)-hIgGfc transfected HEK293 (2) cell lysate.

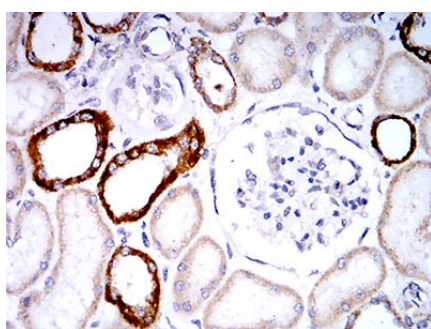
Flow cytometric analysis of Hela cells using PLD2 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of MCF-7 cells using PLD2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher



Immunofluorescence analysis of SK-OV-3 cells using PLD2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher



Immunohistochemical analysis of paraffin-embedded renal tissues using PLD2 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.