10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to PLD2

Purified Mouse Monoclonal Antibody
Catalog # AO2359a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	O14939
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7E4D9
Isotype	Mouse IgG1
Calculated MW	105987
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.
Immunogen	Purified recombinant fragment of human PLD2 (AA: 834-933) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	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

Gene ID	5338
Other Names	Phospholipase D2, PLD 2, hPLD2, 3.1.4.4, Choline phosphatase 2, PLD1C, Phosphatidylcholine-hydrolyzing phospholipase D2, PLD2 (HGNC:9068)
Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A E~~N/A
Storage	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.
Precautions	Mouse Monoclonal Antibody to PLD2 is for research use only and not for use in diagnostic or therapeutic procedures.

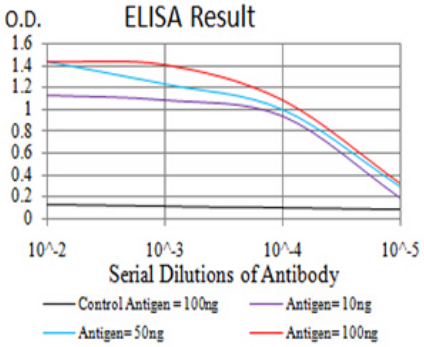
Protein Information

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

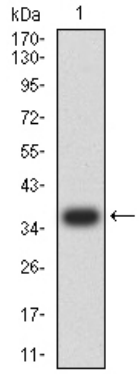
References

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

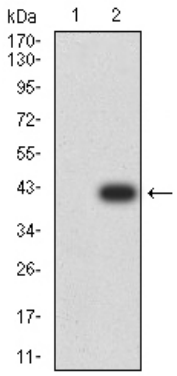
Images



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

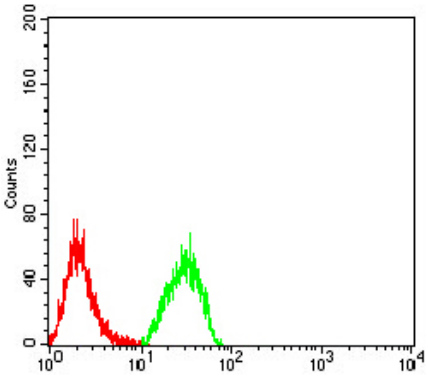


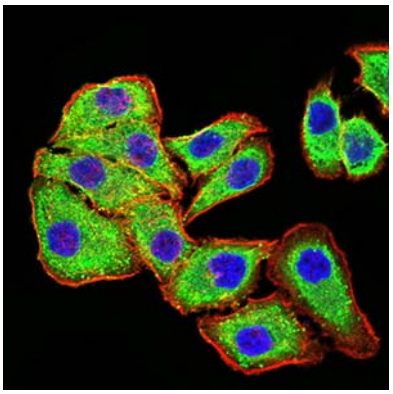
Western blot analysis using PLD2 mAb against human PLD2 (AA: 834-933) recombinant protein. (Expected MW is 37.4 kDa)



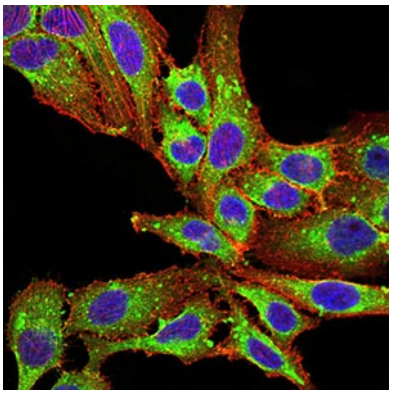
Western blot analysis using PLD2 mAb against HEK293 (1) and PLD2 (AA: 834-933)-hIgGFc transfected HEK293 (2) cell lysate.

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

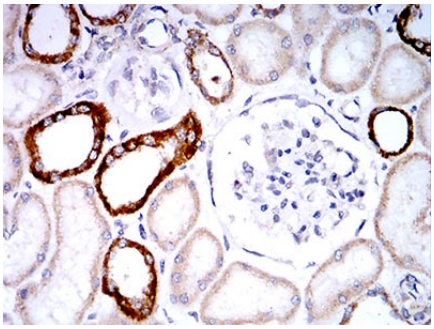




Immunofluorescence analysis of MCF-7 cells using PLD2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher



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.