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Mouse Monoclonal Antibody to PLD2
Purified Mouse Monoclonal Antibody
Catalog # AO2359a

Specification

Mouse Monoclonal Antibody to PLD2 - Product Information

Application	**E, WB, FC, ICC, IHC**
Primary Accession	O14939
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**106kDa KDa**

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

Mouse Monoclonal Antibody to PLD2 - Additional Information

Gene ID 5338

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.

Mouse Monoclonal Antibody to PLD2 - 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}

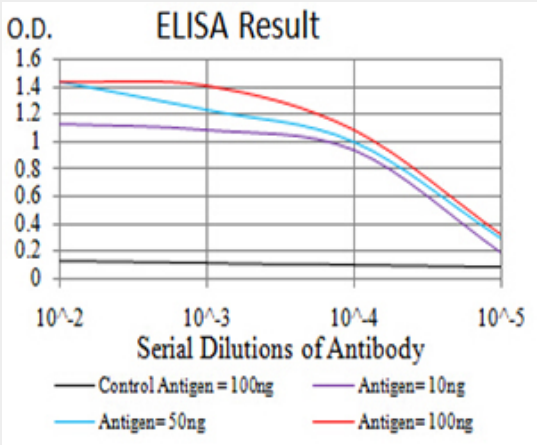
Tissue Location
Ubiquitous..

Mouse Monoclonal Antibody to PLD2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

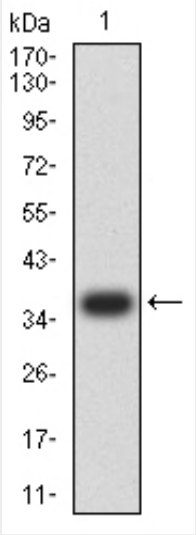
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to PLD2 - Images

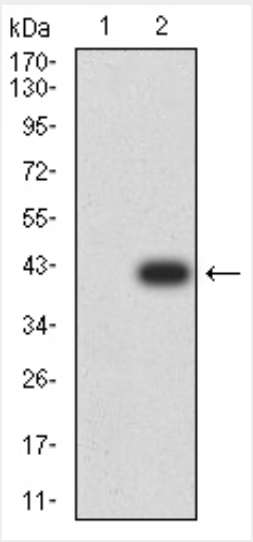


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

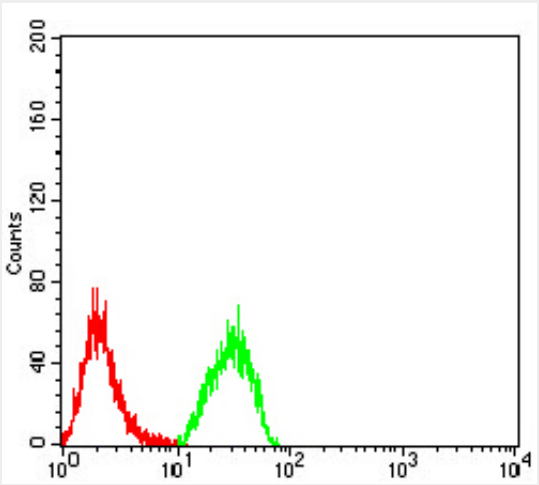
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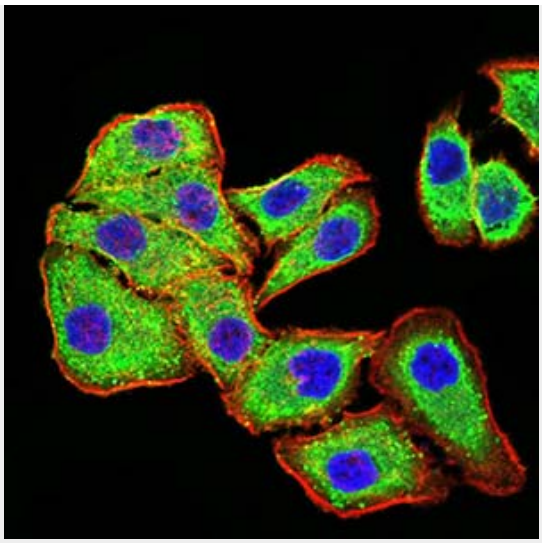
Western blot analysis using PLD2 mAb against human PLD2 (AA: 834-933) recombinant protein. (Expected MW is 37.4 kDa)



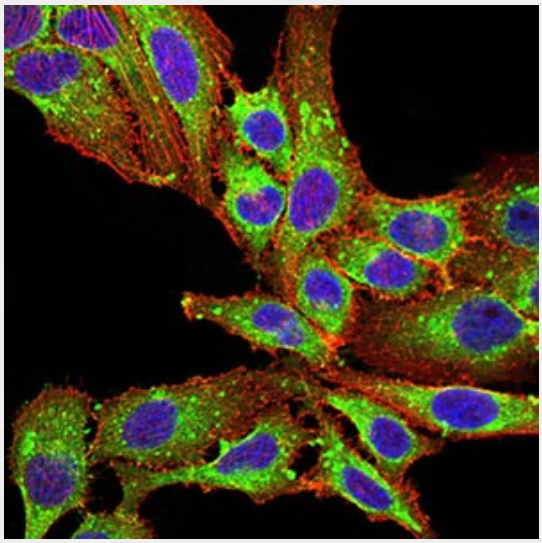
Western blot analysis using PLD2 mAb against HEK293 (1) and PLD2 (AA: 834-933)-hIgGFc transfected HEK293 (2) cell lysate.



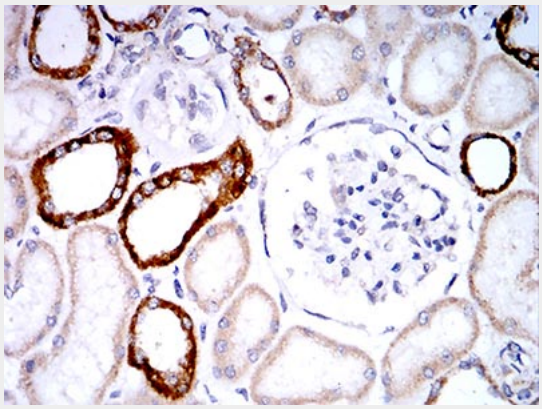
Flow cytometric analysis of Hela cells using PLD2 mouse mAb (green) and negative control (red).



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

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DAB staining.

Mouse Monoclonal Antibody to PLD2 - References

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