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PLD2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PLD2.
Catalog # AT3337a

Product Information

Application	WB, E
Primary Accession	O14939
Other Accession	BC015033
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C5
Calculated MW	105987

Additional Information

Gene ID	5338
Other Names	Phospholipase D2, PLD 2, hPLD2, Choline phosphatase 2, PLD1C, Phosphatidylcholine-hydrolyzing phospholipase D2, PLD2
Target/Specificity	PLD2 (AAH15033, 834 a.a. ~ 933 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PLD2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

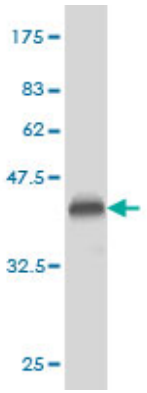
Phosphatidylcholine (PC)-specific phospholipases D (PLDs; EC 3.1.4.4) catalyze the hydrolysis of PC to produce phosphatidic acid and choline. Activation of PC-specific PLDs occurs as a consequence of agonist stimulation of both tyrosine kinase and G protein-coupled receptors. PC-specific PLDs have been proposed to function in regulated secretion, cytoskeletal reorganization, transcriptional regulation, and cell cycle control.

References

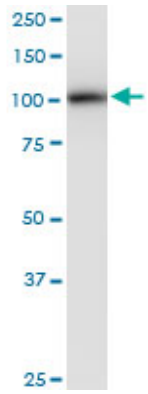
1.Construction of lentiviral shRNA expression vector targeting phospholipase D2 (PLD2) gene??.Lian XF, Yu

CX, He XL, Lin JJ, Chen YZ, Zhu L.African Journal of Biotechnology Vol. 10 (66), pp. 15044-15050, 26 October, 20112.Mechanisms for the activity of heterocyclic cyclohexanone curcumin derivatives in estrogen receptor negative human breast cancer cell lines.Somers-Edgar TJ, Taurin S, Larsen L, Chandramouli A, Nelson MA, Rosengren RJ.Invest New Drugs. 2009 Oct 9. [Epub ahead of print]

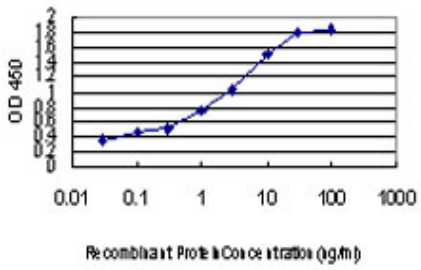
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



PLD2 monoclonal antibody (M01), clone 1C5. Western Blot analysis of PLD2 expression in rat brain.



Detection limit for recombinant GST tagged PLD2 is approximately 0.03ng/ml as a capture antibody.

Citations

- Phospholipase D facilitates efficient entry of influenza virus allowing escape from innate mmune inhibition.
- Downregulation of miRs 203, 887, 3619 and 182 prevent vimentin-triggered, phospholipase D (PLD)-mediated cancer cell invasion.
- The transcription factors Slug (SNAI2) and Snail (SNAI1) regulate phospholipase D (PLD) promoter in opposite ways towards cancer cell invasion.

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