

**PLD2 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant PLD2.

Catalog # AT3337a

**Specification**

---

**PLD2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O14939</a>
Other Accession	<a href="#">BC015033</a>
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	105987

**PLD2 Antibody (monoclonal) (M01) - 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

**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.

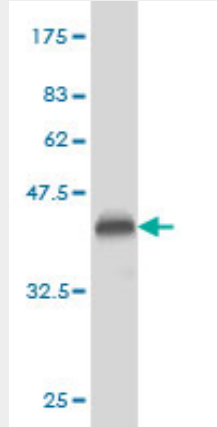
**PLD2 Antibody (monoclonal) (M01) - Protocols**

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

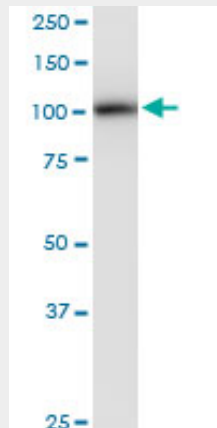
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

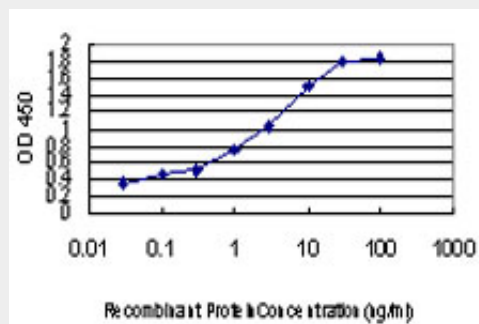
**PLD2 Antibody (monoclonal) (M01) - Images**



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.

**PLD2 Antibody (monoclonal) (M01) - 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.

### **PLD2 Antibody (monoclonal) (M01) - 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, 2011. 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]

### **PLD2 Antibody (monoclonal) (M01) - Citations**

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