
Anti-PLD

Cat #: HM1284
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Phospholipase D catalyzes the hydrolysis of phosphatidylcholine to form phosphatidic acid and released choline headgroup. The phosphatidic acid may act as a signal molecule, or can be hydrolyzed to form diacylglycerol by the enzyme PA phosphohydrolase. In addition to the transient activation by growth factors stimulation, PLD is constitutively activated in some of the Src- and Ras-transformed cells. PLD is one of the target enzymes of ischemia; its decrease may cause a perturbation of PC hydrolysis and/or disorders of intracellular signal transduction or choline metabolism for acetylcholine formation in the brain. Two mammalian isoforms of phospholipase D (PLD1 and PLD2) have been identified. PLD1 is an Arf-activated isoform which can be activated synergistically by Rho and the regulatory domain of protein kinase C (calcium-dependent isoforms). PLD2 is constitutively active when expressed in cells.

SPECIFICITY

This antibody specifically reacts with PLD1 and PLD2. of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular Weight: 116 kDa (PLD1), 100 kDa (PLD2). Western blotting positive controls: HeLa cell lysate.

IMMUNOGEN

A GST fusion-protein corresponding to the carboxy terminal of human PLD 1.

STORAGE

This antibody is stable for 12 months when stored at 2-8° C.

REFERENCES

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