

PLD3 Antibody(N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19786a

Specification

PLD3 Antibody(N-term) - Product Information

Application	WB,E
Primary Accession	Q8IV08
Other Accession	Q5FVH2 , Q35405 , Q4R583 , Q2KJJ8 , NP_036400.2
Reactivity	Mouse
Predicted	Bovine, Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54705
Antigen Region	9-37

PLD3 Antibody(N-term) - Additional Information

Gene ID 23646

Other Names

Phospholipase D3, PLD 3, Choline phosphatase 3, HindIII K4L homolog, Hu-K4,
Phosphatidylcholine-hydrolyzing phospholipase D3, PLD3

Target/Specificity

This PLD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-37 amino acids from the N-terminal region of human PLD3.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PLD3 Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PLD3 Antibody(N-term) - Protein Information

Name PLD3

Function 5'→3' DNA exonuclease which digests single-stranded DNA (ssDNA) (PubMed:[30312375](#)). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor in collaboration with PLD4 (By similarity). May be important in myotube formation (PubMed:[22428023](#)). Plays a role in lysosomal homeostasis (PubMed:[28128235](#)). Involved in the regulation of endosomal protein sorting (PubMed:[29368044](#)).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type II membrane protein. Lysosome lumen. Early endosome membrane; Single-pass type II membrane protein. Late endosome membrane; Single-pass type II membrane protein. Golgi apparatus membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein. Note=Localizes to ER-associated vesicles in differentiating myotubes (PubMed:22428023). The soluble form in lysosome arises by proteolytic processing of the membrane-bound form (PubMed:29386126). Colocalizes with APP in endosomes (PubMed:29368044)

Tissue Location

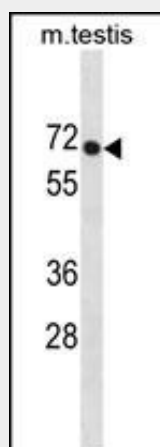
Widely expressed. In the brain, high levels of expression are detected in the frontal, temporal and occipital cortices and hippocampus. Expressed at low level in corpus callosum

PLD3 Antibody(N-term) - 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](#)

PLD3 Antibody(N-term) - Images



PLD3 Antibody (N-term) (Cat. #AP19786a) western blot analysis in mouse testis tissue lysates (35ug/lane). This demonstrates the PLD3 antibody detected the PLD3 protein (arrow).

PLD3 Antibody(N-term) - Background

The function of this protein is unknown.

PLD3 Antibody(N-term) - References

Idkowiak-Baldys, J., et al. J. Biol. Chem. 284(33):22322-22331(2009)
Walker, L.C., et al. Breast Cancer Res. Treat. 112(2):229-236(2008)
Russo, P., et al. Am. J. Hypertens. 19(4):331-338(2006)
Cheng, J., et al. Science 308(5725):1149-1154(2005)
Munck, A., et al. FEBS J. 272(7):1718-1726(2005)