

PLA1A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9548c

Specification

PLA1A Antibody (Center) - Product Information

Application WB,E
Primary Accession Q53H76

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 49715
Antigen Region 329-358

PLA1A Antibody (Center) - Additional Information

Gene ID 51365

Other Names

Phospholipase A1 member A, 311-, Phosphatidylserine-specific phospholipase A1, PS-PLA1, PLA1A, NMD, PSPLA1

Target/Specificity

This PLA1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 329-358 amino acids from the Central region of human PLA1A.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

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

PLA1A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PLA1A Antibody (Center) - Protein Information

Name PLA1A (HGNC:17661)

Synonyms NMD, PSPLA1



Function Hydrolyzes the ester bond of the acyl group attached at the sn-1 position of phosphatidylserines (phospholipase A1 activity) and 1- acyl-2-lysophosphatidylserines (lysophospholipase activity) in the pathway of phosphatidylserines acyl chain remodeling (PubMed: 10196188). Cleaves phosphatidylserines exposed on the outer leaflet of the plasma membrane of apoptotic cells producing 2-acyl-1-lysophosphatidylserines, which in turn enhance mast cell activation and histamine production (By similarity). Has no activity toward other glycerophospholipids including phosphatidylcholines, phosphatidylethanolamines, phosphatidic

Cellular Location

Secreted {ECO:0000250|UniProtKB:P97535}.

Tissue Location

Widely expressed. Expressed in placenta, prostate and liver. Weakly or not expressed in skin, leukocytes, platelets, colon, spleen, lung, muscle and kidney.

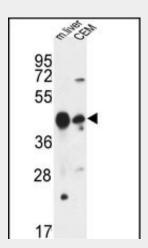
PLA1A Antibody (Center) - Protocols

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

acids or phosphatidylinositols, or glycerolipids such as triolein (By similarity).

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

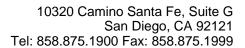
PLA1A Antibody (Center) - Images



PLA1A Antibody (Center) (Cat. #AP9548c) western blot analysis in mouse liver tissue and CEM cell line lysates (35ug/lane). This demonstrates the PLA1A antibody detected the PLA1A protein (arrow).

PLA1A Antibody (Center) - Background

Phosphatidylserine-specific phospholipase A1-alpha (PLA1A) acts specifically on phosphatidylserine (PS) and 1-acyl-2-lysophosphatidylserine (lyso-PS) to hydrolyze fatty acids at the sn-1 position of these phospholipids.





PLA1A Antibody (Center) - References

?Morikawa, R.K., et al. J. Biol. Chem. 284(39):26620-26630(2009) ?Aoki, J., et al. Biochim. Biophys. Acta 1582 (1-3), 26-32 (2002) : ?Wang, J., et al. J. Hum. Genet. 47(11):611-613(2002) ?Nagai, Y., et al. J. Biol. Chem. 274(16):11053-11059(1999) ?van Groningen, J.J., et al. FEBS Lett. 404(1):82-86(1997)