10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PLA1A Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9548c

Specification

PLA1A Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q53H76

PLA1A Antibody (Center) Blocking Peptide - Additional Information

Gene ID 51365

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PLA1A Antibody (Center) Blocking Peptide - 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 acids or phosphatidylinositols, or glycerolipids such as triolein (By similarity).

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) Blocking Peptide - Protocols

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

- Blocking Peptides

PLA1A Antibody (Center) Blocking Peptide - Images

PLA1A Antibody (Center) Blocking Peptide - 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) Blocking Peptide - References

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