

**PLA1A Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9548c****Specification**

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**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:<a href="http://www.uniprot.org/citations/10196188" target="\_blank">10196188</a>). 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)