

PLA2G2E Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18629b**Specification**

PLA2G2E Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9NZK7](#)**PLA2G2E Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 30814**Other Names**

Group IIE secretory phospholipase A2, GIIE sPLA2, sPLA2-IIE, Phosphatidylcholine 2-acylhydrolase 2E, PLA2G2E

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.

PLA2G2E Antibody (C-term) Blocking Peptide - Protein Information**Name** PLA2G2E**Function**

Secretory calcium-dependent phospholipase A2 that primarily targets extracellular phospholipids (PubMed:10681567, PubMed:11922621, PubMed:28883454). Hydrolyzes the ester bond of the fatty acyl group attached at sn-2 position of phospholipids (phospholipase A2 activity), releasing various unsaturated fatty acids including oleoate, linoleoate, arachidonate, docosahexaenoate and lysophosphatidylethanolamines in preference to lysophosphatidylcholines (PubMed:10681567, PubMed:28883454). In response to high-fat diet, hydrolyzes minor lipoprotein phospholipids including phosphatidylserines, phosphatidylinositols and phosphatidylglycerols, altering lipoprotein composition and fat storage in adipose tissue and liver (By similarity). May act in an autocrine and paracrine manner (PubMed:11922621). Contributes to lipid remodeling of cellular membranes and generation of lipid mediators involved in pathogen clearance. Cleaves sn-2 fatty acyl chains of phosphatidylglycerols and phosphatidylethanolamines, which are major components of membrane phospholipids in bacteria (PubMed:11922621).

href="http://www.uniprot.org/citations/11922621" target="_blank">11922621). Acts as a hair follicle phospholipase A2. Selectively releases lysophosphatidylethanolamines (LPE) and various unsaturated fatty acids in skin to regulate hair follicle homeostasis (By similarity). May regulate the inflammatory response by releasing arachidonate, a precursor of prostaglandins and leukotrienes (PubMed:11922621). Upon allergen exposure, may participate in allergic inflammatory response by enhancing leukotriene C4 synthesis and degranulation in mast cells (By similarity).

Cellular Location

Secreted. Cytoplasm Note=Through binding to heparan sulfate proteoglycan, may be localized to cytoplasmic compartments enriched in anionic phospholipids

Tissue Location

Restricted to the brain, heart, lung, and placenta.

PLA2G2E Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PLA2G2E Antibody (C-term) Blocking Peptide - Images**PLA2G2E Antibody (C-term) Blocking Peptide - Background**

PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Has a preference for arachidonic-containing phospholipids.

PLA2G2E Antibody (C-term) Blocking Peptide - References

McGovern, D.P., et al. Nat. Genet. 42(4):332-337(2010)Segat, L., et al. Vaccine 28(10):2201-2206(2010)Barrett, J.C., et al. Nat. Genet. 41(12):1330-1334(2009)Silverberg, M.S., et al. Nat. Genet. 41(2):216-220(2009)Murakami, M., et al. Biochem. Biophys. Res. Commun. 292(3):689-696(2002)