

PLA2G12A Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16639c

Specification

PLA2G12A Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9BZM1
Other Accession	NP_110448.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21067
Antigen Region	55-83

PLA2G12A Antibody (Center) - Additional Information

Gene ID 81579

Other Names

Group XIIA secretory phospholipase A2, GXII sPLA2, sPLA2-XII, Phosphatidylcholine 2-acylhydrolase 12A, PLA2G12A, PLA2G12

Target/Specificity

This PLA2G12A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-83 amino acids from the Central region of human PLA2G12A.

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

PLA2G12A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PLA2G12A Antibody (Center) - Protein Information

Name PLA2G12A

Synonyms PLA2G12

Function PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Does not exhibit detectable activity toward sn-2-arachidonoyl- or linoleoyl-phosphatidylcholine or -phosphatidylethanolamine.

Cellular Location

Secreted. Cytoplasm

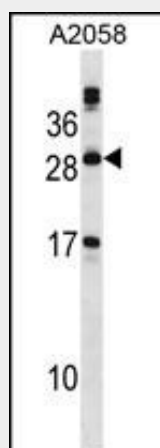
Tissue Location

Abundantly expressed in heart, skeletal muscle, kidney, liver and pancreas

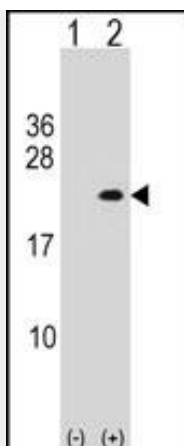
PLA2G12A Antibody (Center) - Protocols

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](#)

PLA2G12A Antibody (Center) - Images

PLA2G12A Antibody (Center) (Cat. #AP16639c) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the PLA2G12A antibody detected the PLA2G12A protein (arrow).



Western blot analysis of PLA2G12A (arrow) using rabbit polyclonal PLA2G12A Antibody (Center) (Cat. #AP16639c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PLA2G12A gene.

PLA2G12A Antibody (Center) - Background

Secreted phospholipase A2 (sPLA2) enzymes liberate arachidonic acid from phospholipids for production of eicosanoids and exert a variety of physiologic and pathologic effects. Group XII sPLA2s, such as PLA2G12A, have relatively low specific activity and are structurally and functionally distinct from other sPLA2s (Gelb et al., 2000 [PubMed 11031251]).

PLA2G12A Antibody (Center) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)
Chen, W., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7401-7406(2010)
Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)