

Anti-PLA2G4C Antibody
Catalog # AP53782**Specification**

Anti-PLA2G4C Antibody - Product Information

Application	WB
Primary Accession	Q9UP65
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60939

Anti-PLA2G4C Antibody - Additional Information**Gene ID** 8605**Other Names**

Cytosolic phospholipase A2 gamma; cPLA2-gamma; Phospholipase A2 group IVC

Target/Specificity

Recognizes endogenous levels of PLA2G4C protein.

Dilution

WB~~1/500 - 1/1000

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-PLA2G4C Antibody - Protein Information**Name** PLA2G4C**Function**

Calcium-independent phospholipase, lysophospholipase and O- acyltransferase involved in phospholipid remodeling with implications in endoplasmic reticulum membrane homeostasis and lipid droplet biogenesis (PubMed:19501189, PubMed:9705332, PubMed:10085124, PubMed:10358058, PubMed:28336330). Preferentially hydrolyzes the ester bond of the fatty acyl group attached at the sn-2 position of phospholipids with choline and ethanolamine head groups, producing lysophospholipids that are used in deacylation-reacylation cycles (PubMed:19501189, PubMed:9705332, PubMed:10085124, PubMed:10358058, PubMed:28336330).

[9705332](http://www.uniprot.org/citations/9705332), PubMed: [10085124](http://www.uniprot.org/citations/10085124), PubMed: [10358058](http://www.uniprot.org/citations/10358058), PubMed: [28336330](http://www.uniprot.org/citations/28336330)). Transfers the sn-1 fatty acyl from one lysophospholipid molecule to the sn-2 position of another lysophospholipid to form diacyl, alkylacyl and alkenylacyl glycerophospholipids. Cleaves ester bonds but not alkyl or alkenyl ether bonds at sn-1 position of lysophospholipids (PubMed: [19501189](http://www.uniprot.org/citations/19501189), PubMed: [15944408](http://www.uniprot.org/citations/15944408)). Catalyzes sn-2 fatty acyl transfer from phospholipids to the sn-2 position of 1-O-alkyl or 1-O-alkenyl lysophospholipids with lower efficiency (PubMed: [19501189](http://www.uniprot.org/citations/19501189), PubMed: [15944408](http://www.uniprot.org/citations/15944408)). In response to dietary fatty acids, may play a role in the formation of nascent lipid droplets from the endoplasmic reticulum likely by regulating the phospholipid composition of these organelles (PubMed: [28336330](http://www.uniprot.org/citations/28336330)).

Cellular Location

Cell membrane; Lipid-anchor. Endoplasmic reticulum membrane; Lipid-anchor. Mitochondrion membrane; Lipid- anchor. Lipid droplet. Note=Translocates from endoplasmic reticulum to lipid droplets in response to oleate

Tissue Location

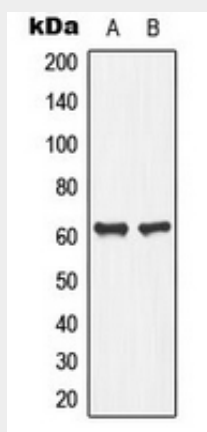
Highly expressed in heart and skeletal muscle.

Anti-PLA2G4C Antibody - 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](#)

Anti-PLA2G4C Antibody - Images



Western blot analysis of PLA2G4C expression in Jurkat (A), human pancreas (B) whole cell lysates.

Anti-PLA2G4C Antibody - Background

Rabbit polyclonal antibody to PLA2G4C