

PLA2G4F Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22037c

Specification

PLA2G4F Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q68DD2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	95082

PLA2G4F Antibody (Center) - Additional Information

Gene ID 255189

Other Names

Cytosolic phospholipase A2 zeta, cPLA2-zeta, 3.1.1.4, Phospholipase A2 group IVF, PLA2G4F

Target/Specificity

This PLA2G4F antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 289-331 amino acids from the Central region of human PLA2G4F.

Dilution

WB~~1:2000

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

PLA2G4F Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PLA2G4F Antibody (Center) - Protein Information

Name PLA2G4F

Function Has calcium-dependent phospholipase and lysophospholipase activities with a potential role in membrane lipid remodeling and biosynthesis of lipid mediators (PubMed:[29158256](#)). Preferentially hydrolyzes the ester bond of the fatty acyl group attached at sn-2 position of

phospholipids (phospholipase A2 activity) (PubMed:[29158256](#)). Selectively hydrolyzes sn-2 arachidonoyl group from membrane phospholipids, providing the precursor for eicosanoid biosynthesis (PubMed:[29158256](#)). In myocardial mitochondria, plays a major role in arachidonate release that is metabolically channeled to the formation of cardioprotective eicosanoids, epoxyeicosatrienoates (EETs) (PubMed:[29158256](#)).

Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q50L41}. Cell membrane {ECO:0000250|UniProtKB:Q50L41}; Peripheral membrane protein. Mitochondrion

Tissue Location

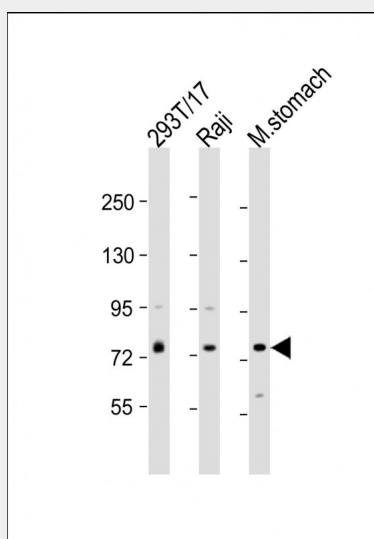
Expressed in myocardium (at protein level).

PLA2G4F 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](#)

PLA2G4F Antibody (Center) - Images



All lanes : Anti-PLA2G4F Antibody (Center) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: Raji whole cell lysate Lane 3: mouse stomach lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 95 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PLA2G4F Antibody (Center) - Background

Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position. Has higher enzyme activity for phosphatidylethanolamine than phosphatidylcholine (By

similarity).

PLA2G4F Antibody (Center) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Zody M.C.,et al.Nature 440:671-675(2006).

Bechtel S.,et al.BMC Genomics 8:399-399(2007).