

CPLA2-zeta Antibody (internal region, near C-Term)
Peptide-affinity purified goat antibody
Catalog # AF3180a**Specification**

CPLA2-zeta Antibody (internal region, near C-Term) - Product Information

Application	E
Primary Accession	Q68DD2
Other Accession	NP_998765.3 , 255189
Predicted	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	95082

CPLA2-zeta Antibody (internal region, near C-Term) - Additional Information**Gene ID** 255189**Other Names**

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

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CPLA2-zeta Antibody (internal region, near C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

CPLA2-zeta Antibody (internal region, near C-Term) - 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:<a href="http://www.uniprot.org/citations/29158256"

target="_blank">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).

CPLA2-zeta Antibody (internal region, near C-Term) - 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](#)

CPLA2-zeta Antibody (internal region, near C-Term) - Images**CPLA2-zeta Antibody (internal region, near C-Term) - References**

Identification of novel cytosolic phospholipase A(2)s, murine cPLA(2){delta}, {epsilon}, and {zeta}, which form a gene cluster with cPLA(2){beta}. Ohto T, Uozumi N, Hirabayashi T, Shimizu T, The Journal of biological chemistry 2005 Jul 280 (26): 24576-83. PMID: 15866882