



Rabbit Anti-CPLA2 beta antibody

SL3780R

Product Name:	CPLA2 beta
Chinese Name:	胞浆型磷脂酶A2抗体
Alias:	CPLA2 beta; Cytosolic phospholipase A2 beta; DKFZp686N12131; FLJ17693; FLJ42498; FLJ53173; PA24B_HUMAN; HsT16992; OTTHUMP00000201605; OTTHUMP00000210673; Phospholipase A2 group IVB; Phospholipase A2, group IVB (cytosolic); PLA2G4B.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	88kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CPLA2 beta:301-400/781
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a member of the cytosolic phospholipase A2 protein family. Phospholipase A2 enzymes hydrolyze the sn-2 bond of phospholipids, releasing lysophospholipids and fatty acids. This enzyme may be associated with mitochondria and early endosomes. Most tissues also express read-through transcripts from the

upstream gene into this gene, some of which may encode fusion proteins combining the N-terminus of the upstream gene including its JmjC domain with the almost complete coding region of this gene, including the C2 and cytoplasmic phospholipase A2 domains.

Function:

Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position with a preference for arachidonoyl phospholipids. Has a much weaker activity than PLA2G4A. Isoform 3 has calcium-dependent activity against palmitoyl-arachidonoyl-phosphatidylethanolamine and low level lysophospholipase activity but no activity against phosphatidylcholine. Isoform 5 does have activity against phosphatidylcholine.

Subcellular Location:

Cytoplasm, cytosol.

Isoform 3: Mitochondrion membrane; Peripheral membrane protein. Early endosome membrane; Peripheral membrane protein. Note=Translocates to membrane vesicles in a calcium-dependent fashion.

Tissue Specificity:

Widely expressed. Expressed at higher level in brain, heart, liver, cerebellum and pancreas. Isoform 3 is widely expressed.

Similarity:

Contains 1 C2 domain.

Contains 1 PLA2c domain.

SWISS:

P0C869

Gene ID:

100137049

Database links:

UniProtKB/Swiss-Prot: P0C869.2

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.