SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CaIPLA2 antibody

Catalog Number: SL22878R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CaIPLA2
Immunogen:	KLH conjugated synthetic peptide derived from human CaIPLA2: 331-430/806
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog, Pig, Cow, Rabbit, Sheep)
Predicted MW.:	90kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	The protein encoded by this gene is an A2 phospholipase, a class of enzyme that catalyzes the release of fatty acids from phospholipids. The encoded protein may play a role in phospholipid remodelling, arachidonic acid release, leukotriene and prostaglandin synthesis, fas-mediated apoptosis, and transmembrane ion flux in glucose-stimulated B-cells. Several transcript variants encoding multiple isoforms have been described, but the full-length nature of only three of them have been determined to date. [provided by RefSeq, Dec 2010]. **Function:** Catalyzes the release of fatty acids from phospholipids. It has been implicated in normal phospholipid remodeling, nitric oxide-induced or

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	vasopressin-induced arachidonic acid release and in leukotriene and prostaglandin production. May participate in fas mediated apoptosis and in regulating transmembrane ion flux in glucose-stimulated B-cells. Has a role in cardiolipin (CL) deacylation. Required for both speed and directionality of monocyte MCP1/CCL2-induced chemotaxis through regulation of F-actin polymerization at the pseudopods. Isoform ankyrin-iPLA2-1 and isoform ankyrin-iPLA2-2, which lack the catalytic domain, are probably involved in the negative regulation of iPLA2 activity. **Subunit:** Forms large oligomeric 270-350 kDa structures. **Subcellular Location:** Isoform LH-iPLA2: Membrane; Peripheral membrane protein. Note=Recruited to the membrane-enriched pseudopod upon MCP1/CCL2 stimulation in monocytes. Isoform SH-iPLA2: Cytoplasm. **Tissue Specificity:** Four different transcripts were found to be expressed in a distinct tissue distribution. DISEASE: Defects in PLA2G6 are the cause of neurodegeneration with brain iron accumulation type 2B (NBIA2B) [MIM:610217]. A neurodegenerative disorder associated with iron accumulation in the brain, primarily in the basal ganglia. It is characterized by progressive extrapyramidal dysfunction leading to rigidity, dystonia, dysarthria and sensorimotor impairment. Defects in PLA2G6 are the cause of neurodegeneration with brain iron accumulation type 2A (NBIA2A) [MIM:256600]; also known as Seitelberger disease. NBIA2A is a neurodegenerative disease characterized by pathologic axonal swelling and spheroid bodies in the central nervous system. Onset is within the first 2 years of life with death by age 10 years. Defects in PLA2G6 are the cause of Parkinson disease type 14 (PARK14) [MIM:612953]. An adult-onset progressive neurodegenerative disorder characterized by parkinsonism, dystonia, severe cognitive decline, cerebral and cerebellar atrophy and absent iron in the basal ganglia on magnetic resonance imaging. **Similarity:** Contains 7 ANK repeats. Contains 1 patatin domain. **Database links:** **Entrez Gene:** 8398 Human **Entrez Gene:** 53357 Mouse **Entrez Gene:** 360426 Rat Omim: 603604 Human **SwissProt:** O60733 Human **SwissProt:** P97819 Mouse

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	SwissProt: P97570 Rat **Unigene:** 170479 Human **Unigene:** 155620 Mouse **Unigene:** 44692 Rat

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