

Rabbit c-PLA2 Polyclonal Antibody | anti-PLA2G4A antibody

Phospho-c-PLA2 (Ser505) Antibody

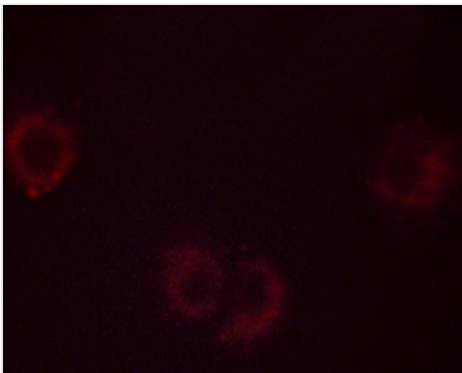
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321635	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

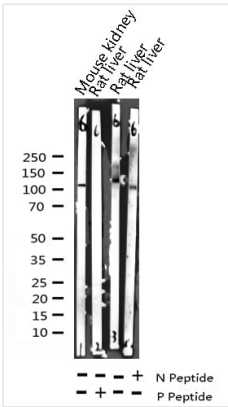
c-PLA2; Polyclonal Antibody; Phospho-c-PLA2 (Ser505) Antibody; Calcium dependent phospholipid binding protein; CPLA 2; cPLA2 alpha; cPLA2; Cytosolic phospholipase A2; Cytosolic phospholipase A2 group IVA; Lysophospholipase; MGC126350; PA24A_HUMAN; Phosphatidylcholine 2 acylhydrolase; Phosphatidylcholine 2-acylhydrolase; Phospholipase A2 group 4 A; Phospholipase A2 group IVA (cytosolic calcium dependent); Phospholipase A2 group IVA; PhospholipaseA2; PLA2G4; pla2g4a; anti-PLA2G4A antibody

PRODUCT SPECIFICATIONS

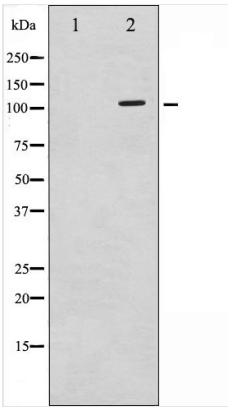
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-c-PLA2 (Ser505) antibody detects endogenous levels of c-PLA2 only when phosphorylated at Serine 505
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	689
Applicable Applications for anti-PLA2G4A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human c-PLA2 around the phosphorylation site of Serine 505
Subcellular Location	Cytoplasm. Cytoplasmic Vesicle. Translocates to membrane vesicles in a calcium-dependent fashion.
Tissue Specificity	Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Bovine (82%), Horse (82%), Sheep (82%), Rabbit (91%), Dog (82%), Xenopus (90%)
Conjugation	Unconjugated
Epitope	Phospho Ser505
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



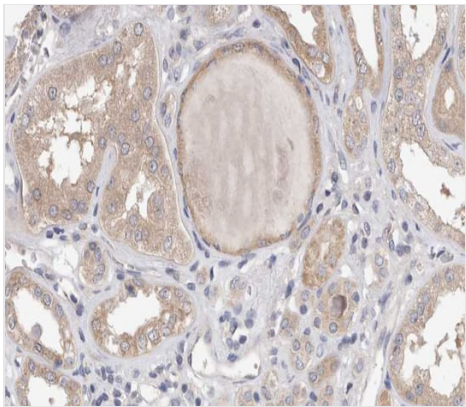
IF (Immunofluorescence)
AAA321635 staining C2C12 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



WB (Western Blot)
Western blot analysis of Phospho-c-PLA2 (Ser505) expression in various lysates



WB (Western Blot)
Western blot analysis of c-PLA2 phosphorylation expression in TNF-a treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA321635 at 1/200 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PLA2G4A antibody	Description:	cPLA2 a calcium-dependent phospholipase A2 that catalyzes the release of arachidonic acid from membrane phospholipids. Selectively hydrolyzes arachidonyl phospholipids in the sn-2 position releasing arachidonic acid.
	Function:	Selectively hydrolyzes arachidonyl phospholipids in the sn-2 position releasing arachidonic acid. Together with its lysophospholipid activity, it is implicated in the initiation of the inflammatory response.
	Subunit Structure:	Interacts with KAT5.
	Post-translational Modifications:	Activated by phosphorylation at both Ser-505 and Ser-727.
	Similarity:	The N-terminal C2 domain associates with lipid membranes upon calcium binding. It modulates enzyme activity by presenting the active site to its substrate in response to elevations of cytosolic Ca2+.

NCBI AND UNIPROT INFORMATION

NCBI GI #	909618051
NCBI GeneID	5321
NCBI Accession #	NP_001298122.1
NCBI GenBank Nucleotide #	NM_001311193.1
UniProt Accession #	P47712; Q29R80; B1AKG4

Molecular Weight	Observed: 110 kDa Predicted: 86 kDa
NCBI Official Full Name	cytosolic phospholipase A2 isoform 2
NCBI Official Synonym Full Names	phospholipase A2 group IVA
NCBI Official Symbol	PLA2G4A
NCBI Official Synonym Symbols	cPLA2; PLA2G4; cPLA2-alpha
NCBI Protein Information	cytosolic phospholipase A2
UniProt Protein Name	Cytosolic phospholipase A2
UniProt Gene Name	PLA2G4A
UniProt Synonym Gene Names	CPLA2; PLA2G4; cPLA2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/c-pla2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321635>