Polyclonal Antibody Catalog #: APRab04493



Summary

Production Name cPLA2 (phospho Ser505) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC,IF,ELISA **Reactivity** Human,Mouse,Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name PLA2G4A

PLA2G4A; CPLA2; PLA2G4; Cytosolic phospholipase A2; cPLA2; Phospholipase A2 Alternative Names

group IVA

Gene ID 5321.0

P47712.The antiserum was produced against synthesized peptide derived from human SwissProt ID

c-PLA2 around the phosphorylation site of Ser505. AA range:471-520

Application

Dilution Ratio

WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in

other application

other applications.

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Molecular Weight

110kD

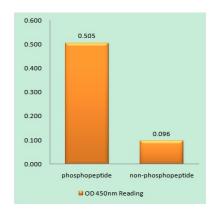
Background

This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory responses, and other intracellular pathways. The hydrolysis reaction also produces lysophospholipids that are converted into platelet-activating factor. The enzyme is activated by increased intracellular Ca(2+) levels and phosphorylation, resulting in its translocation from the cytosol and nucleus to perinuclear membrane vesicles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015], catalytic activity: 2-lysophosphatidylcholine + H(2)O = glycerophosphocholine + a carboxylate.,catalytic activity:Phosphatidylcholine + H(2)O = 1-acylglycerophosphocholine + a carboxylate.,domain:The N-terminal C2 domain, by its association with lipid membranes, mediates the regulation of CPLA2 by presenting the active site to its substrate in response to elevations of cytosolic Ca(2+), enzyme regulation: Stimulated by agonists such as ATP, EGF, thrombin and bradykinin as well as by cytosolic Ca(2+), 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., PTM: Activated by phosphorylation at both Ser-505 and Ser-727., similarity: Contains 1 C2 domain., similarity: Contains 1 PLA2c domain., subcellular location: Translocates to membrane vesicles in a calcium-dependent fashion., subunit: Interacts with HTATIP, tissue specificity: Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium.,

Research Area

Glycerophospholipid metabolism;Ether lipid metabolism;Arachidonic acid metabolism;Linoleic acid metabolism;alpha-Linolenic acid metabolism;MAPK_ERK_Growth;MAPK_G_Protein;Vascular smooth muscle contraction;VEGF;Fc epsilon RI;Fc gamma R-mediated phagocytosis;Long-term depression;GnRH;

Image Data

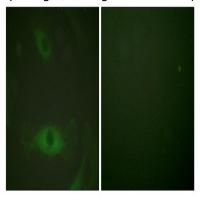


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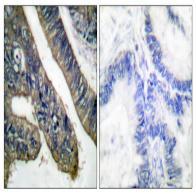
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using c-PLA2 (Phospho-Ser505) Antibody

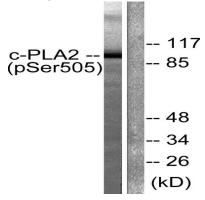


Immunofluorescence analysis of HeLa cells treated with TNF-a 20nM 15 ', using c-PLA2 (Phospho-Ser505) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using c-PLA2 (Phospho-Ser505) Antibody.

The picture on the right is blocked with the phospho peptide.



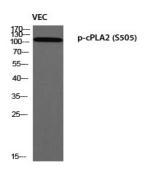
Western blot analysis of lysates from HeLa cells treated with TNF-a 20ng/ml 30 ', using c-PLA2 (Phospho-Ser505)

Antibody. The lane on the right is blocked with the phospho peptide.

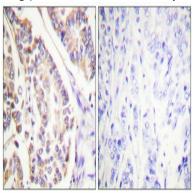
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Western blot analysis of VEC using p-cPLA2 (S505) antibody. Antibody was diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°,overnight) .

High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.