

产品名称: cPLA2 Rabbit Polyclonal Antibody
产品货号: APRab09314



产品概述 (Summary)

产品名称 (Production Name)	cPLA2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PLA2G4A
别名 (Alternative Names)	PLA2G4A; CPLA2; PLA2G4; Cytosolic phospholipase A2; cPLA2; Phospholipase A2 group IVA
基因 ID (Gene ID)	5321.0
蛋白 ID (SwissProt ID)	P47712.The antiserum was produced against synthesized peptide derived from human c-PLA2. AA range:471-520

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	110kDa

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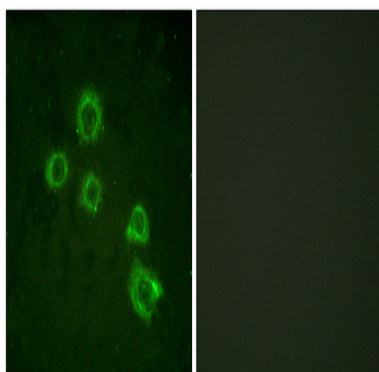
研究背景 (Background)

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_2O = glycerophosphocholine + a carboxylate, catalytic activity: Phosphatidylcholine + H_2O = 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,

研究领域 (Research Area)

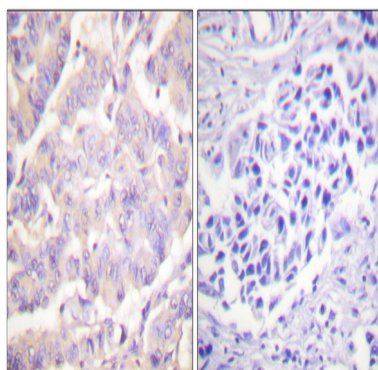
Glycerophospholipid metabolism; Ether lipid metabolism; Arachidonic acid metabolism; Linoleic acid metabolism; alpha-Linolenic acid metabolism; MAPK_ERK_Growth; MAPK_G_Protein; Vascular smooth muscle contraction; VEGF; Fc epsilon RI; Fc gamma R-mediated phagocytosis; Long-term depression; GnRH;

图片 (Image Data)

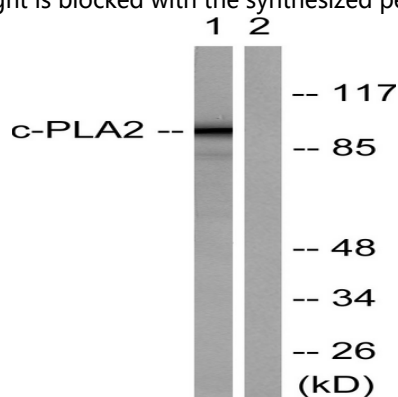


Immunofluorescence analysis of HUVEC cells, using c-PLA2 Antibody. The picture on the right is blocked with the synthesized peptide.

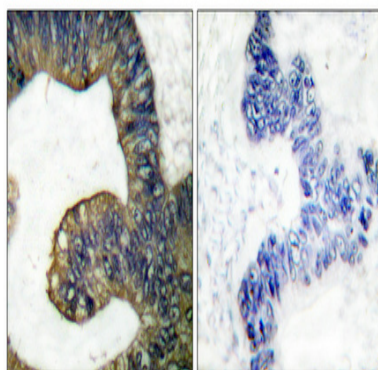
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Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using c-PLA2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, treated with TNF- α 20ng/ml 30', using c-PLA2 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100 (4 $^{\circ}$, overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

注意事项 (Note)

For research use only.