**Antibody** 

产品货号: APRab04493



## 产品概述 (Summary)

产品名称 (Production Name) cPLA2 (phospho Ser505) 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) Phosphorylated

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

**纯化方式 (Purification)** Affinity purification

# 免疫原信息 (Immunogen)

基因名 (Gene Name) PLA2G4A

PLA2G4A; CPLA2; PLA2G4; Cytosolic phospholipase A2; cPLA2; Phospholipase 别名 (Alternative Names)

A2 group IVA

基因 ID (Gene ID) 5321.0

P47712.The antiserum was produced against synthesized peptide derived

**蛋白ID (SwissProt ID)** from human c-PLA2 around the phosphorylation site of Ser505. 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

Web:https://www.enkilife.cn E-mail:order@enkilife.cn (销售) tech@enkilife.cn (技支持) Tel:027-87002838

**Antibody** 

产品货号: APRab04493



蛋白分子量 (Molecular Weight) 110kDa

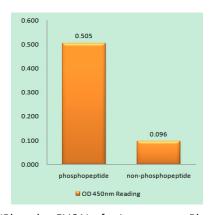
## 研究背景 (Background)

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(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.,

#### 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)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-

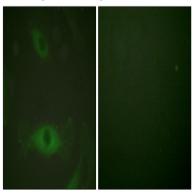
Web:https://www.enkilife.cn E-mail:order@enkilife.cn (销售) tech@enkilife.cn (技术支持) Tel:027-87002838



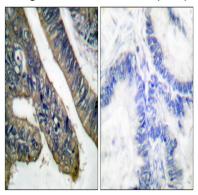
产品货号: APRab04493



Phosphopeptide (Phospho-right), using c-PLA2 (Phospho-Ser505) Antibody

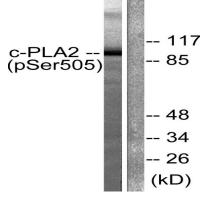


Immunofluorescence analysis of HeLa cells treated with TNF-a 20nM 15 ', using c-PLA2 (Phospho-Ser505) Antibody. The picture on the right is blocked with the phospho peptide.



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)

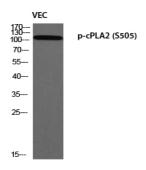
Antibody. The lane on the right is blocked with the phospho peptide.

Web:https://www.enkilife.cn E-mail:order@enkilife.cn (销售) tech@enkilife.cn (技术支持) Tel:027-87002838

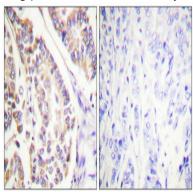


产品货号: APRab04493





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.

### 注意事项 (Note)

For research use only.

Web:https://www.enkilife.cn E-mail:order@enkilife.cn (销售) tech@enkilife.cn (技术支持) Tel:027-87002838