

cPLA2 (Phospho Ser505) Rabbit pAb

CatalogNo: YP0868 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 110kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human c-PLA2 around the phosphorylation site of Ser505. AA range:471-520

Specificity

Phospho-cPLA2 (S505) Polyclonal Antibody detects endogenous levels of cPLA2 protein only when phosphorylated at S505. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PLsPL

Target Information

Gene name PLA2G4A

Protein Name Cytosolic phospholipase A2

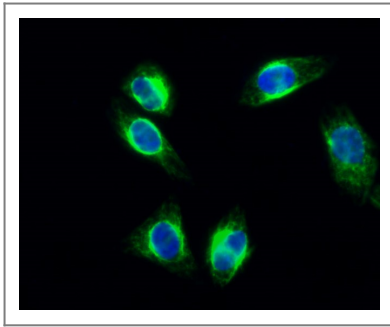
Organism	Gene ID	UniProt ID
Human	5321 ;	P47712 ;
Mouse	18783 ;	P47713 ;
Rat		P50393 ;

Cellular Localization Cytoplasm . Golgi apparatus membrane . Nucleus envelope. Translocates to intracellular membranes in a calcium-dependent way. .

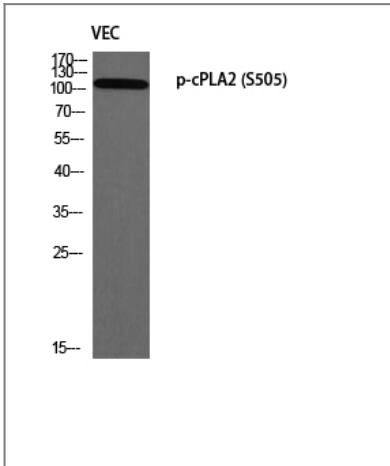
Tissue specificity Expressed in various cells and tissues such as macrophages, neutrophils, fibroblasts and lung endothelium. Expressed in platelets (at protein level) (PubMed:25102815).

Function 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.,

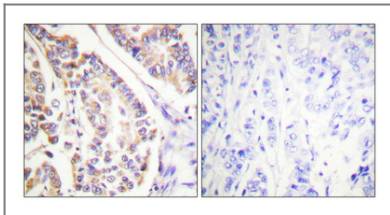
Validation Data



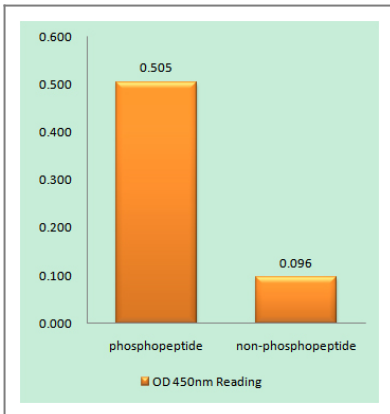
Immunofluorescence analysis of HeLa cell. 1, cPLA2 (phospho Ser505) Polyclonal Antibody (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog: RS3211 was diluted at 1:1000 (room temperature, 50min). 3 DAPI (blue) 10min.



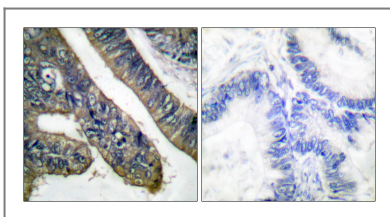
Western blot analysis of VEC using p-cPLA2 (S505) antibody. Antibody was diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



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



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.

Contact information

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Please scan the QR code
to access additional
product information:
**cPLA2 (Phospho
Ser505) Rabbit pAb**

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