

## cPLA2 (phospho-S505) polyclonal antibody

Catalog: BS4052

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Phospholipase A2s (PLA2s) constitute a family of esterases that hydrolyze the sn-2-acyl ester bond in glycerophospholipid molecules. These enzymes are generally calcium-dependent and have been found both intra- and extracellularly. By hydrolyzing the sn-2 bond in glycerophospholipids, PLA2s release fatty acids. One such fatty acid, arachidonic acid, generates the substrates for the initiation of the arachidonic acid cascade that produces various eicosanoids (i.e. prostaglandins, leukotrienes and thromboxanes), many of which are potent mediators of inflammation. PLA2s include both the relatively low molecular weight type I and type II enzymes and the form known as cytoplasmic PLA2 (cPLA2). cPLA2 is present in the cytosol of various cells and tissues including platelets, macrophages and monoblasts; and preferentially hydrolyzes the sn-2 position of phospholipid molecules, releasing free arachidonate.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 100 kDa

### Swiss-Prot:

P47712

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

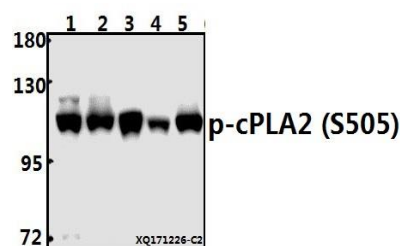
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

### Specificity:

p-cPLA2 (S505) polyclonal antibody detects endogenous levels of cPLA2 protein only when phosphorylated at Ser505.

### DATA:



Western blot (WB) analysis of p-cPLA2 (S505) pAb at 1:500 dilution

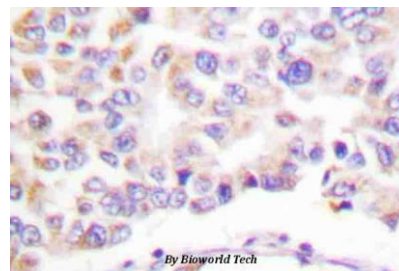
Lane1:MCF-7 whole cell lysate(40ug)

Lane2:A549 whole cell lysate(40ug)

Lane3:The Uterus tissue lysate of Rat(40ug)

Lane4:The Uterus tissue lysate of Mouse(40ug)

Lane5:3T3-L1 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-cPLA2 (S505) pAb in paraffin-embedded human breast cancer tissue.

### Note:

For research use only, not for use in diagnostic procedure.

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