

## PLA2G4A

**Reactivity:**Human Mouse

**Tested applications:**WB

**Recommended Dilution:**WB 1:200 - 1:500

**Calculated MW:**85kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human PLA2G4A

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

q

**Synonym:**

Cytosolic phospholipase A2; cPLA2; Phospholipase A2 group IVA; Lysophospholipase; PLA2G4; CPLA2; PLA2G4A

**Catalog #:**A0394

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**5321

**Isotype:**IgG

**Swiss Prot:**P47712

**Purity:**Affinity purification

For research use only.

**Background:**

Cytosolic phospholipase A2 (cPLA2) is a ubiquitously distributed enzyme that catalyzes the hydrolysis of the sn-2 acyl bond of glycerolipids to produce lysophospholipids and release arachidonic acid (1). cPLA2 has been implicated in diverse cellular responses such as mitogenesis, differentiation, inflammation and cytotoxicity (1). Calcium binding to the amino-terminal CalB domain of cPLA2 promotes the translocation of cPLA2 from cytosol to membrane, where cPLA2 cleaves arachidonic acid from natural membrane (2). Phosphorylation of cPLA2 by MAPK (p42/44 and p38) at Ser505 (3,4) and Ser727 (5) stimulates its catalytic activity.

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