# cPLA2 Antibody / PLA2G4A / Phospholipase A2 (R31157)

| Catalog No. | Formulation | Size |
|---|---|---|
| R31157 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

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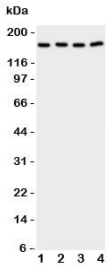
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | P47712 |
| **Applications** | Western Blot : 0.5-1ug/ml |
| **Limitations** | This cPLA2 antibody is available for research use only. |




Western blot testing of cPLA2 antibody and Lane 1: rat testis; 2: (r) brain; 3: human A549; 4: (h) COLO320 cell lysate. Expected size 85~110KD, observed here at ~160KD

## Description

Cytosolic Phospholipase A2, Group IVA is an enzyme that in humans is encoded by the PLA2G4A gene. Tay et al.(1995) mapped the gene to rat chromosome 13 by PCR-based intercross genotyping and to human 1q25 by fluorescence in situ hybridization. By site-directed mutagenesis and biochemical analysis of the recombinant protein, Sharp et al.(1994) determined that ser228 participates in the catalytic mechanism of cPLA2 and that both the phospholipase A2 and the lysophospholipase activities are catalyzed by the same active site residue(s). PLA2G4A, the cytosolic phospholipase A2, appears to subserve transmembrane signaling responses to extracellular ligands(Skorecki, 1995).

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the cPLA2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human cytosolic Phospholipase A2 (PNQAFKRLHDLMHFN) was used as the immunogen for this cPLA2 antibody.

## Storage

After reconstitution, the cPLA2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.