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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB10113 - Goat Anti-PLA2G4A Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: calcium-dependent phospholipid-binding protein, cPLA2-alpha, cytosolic phospholipase A2, group IVA, lysophospholipase, MGC126350, phosphatidylcholine 2-acylhydrolase, phospholipase A2, group IVA (cytosolic, calcium-dependent), PLA2G4, PLA2G4A

Official Symbol: PLA2G4A

Accession Number(s): NP_077734.1

Human GeneID(s): [5321](#)

Immunogen

Peptide with sequence C-QEKTFRQQRKEHIR, from the internal region of the protein sequence according to NP_077734.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.

Western blot: Approx 80-85kDa band observed in lysates of cell line A549 (calculated MW of 85.2kDa according to NP_077734.1). Preliminary experiments also showed an 85-90kDa band in lysates of cell lines A431, HeLa and NIH-3T3 Recommended concentration: 0.3-1µg/ml. Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Rat for this particular batch.

IHC: Paraffin embedded Human Uterus. Recommended concentration: 3.75µg/ml.

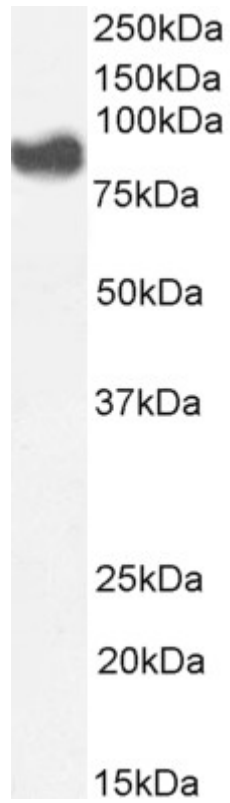
Immunofluorescence: Strong expression of the protein seen in the cytoplasm of A549 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A549 cells. Recommended concentration: 10ug/ml.

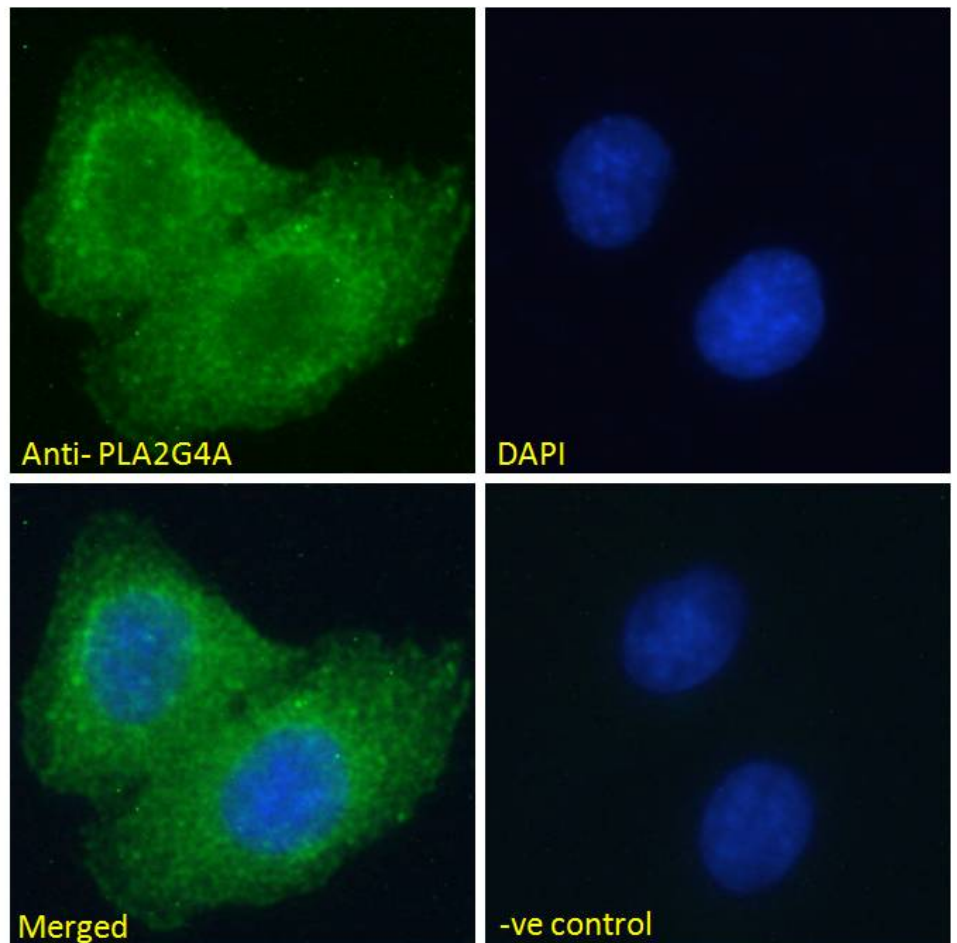
Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Rat

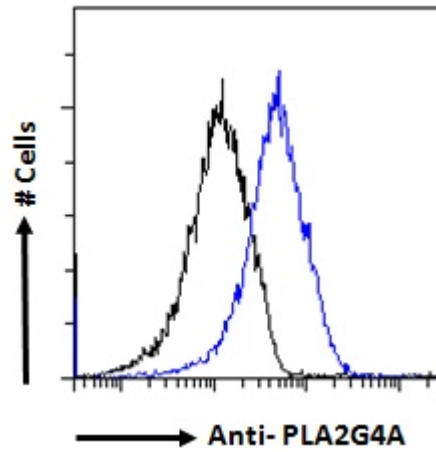


EB10113 (1 μ g/ml) staining of A549 cell lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.

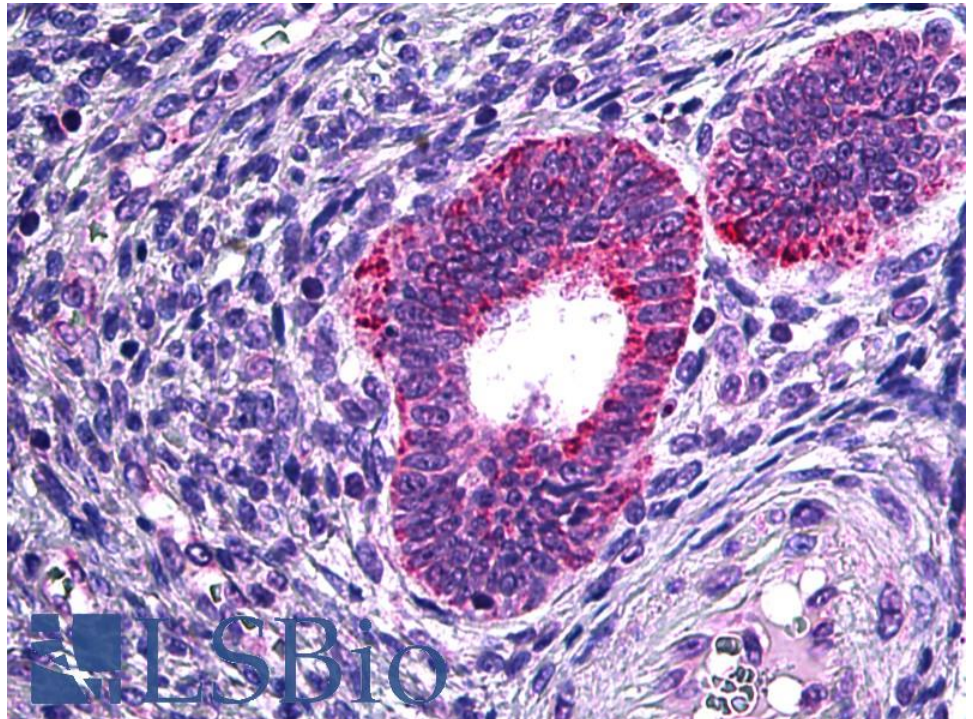


EB10113 Immunofluorescence analysis of paraformaldehyde fixed A549 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 μ g/ml) followed by Alexa Fluor 488 secondary antibody (2 μ g/ml), showing cytoplasmic

staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB10113 Flow cytometric analysis of paraformaldehyde fixed A549 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB10113 (3.75 μ g/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.