

AP21373BT-N**Polyclonal Antibody to Phospholipase A2 - Biotin****Alternate names:**

Allergen Api m I, Phosphatidylcholine 2-acylhydrolase

Quantity:

1 ml

Concentration:

10 mg/ml

Background:

Phospholipase A2 catalyzes the hydrolysis of the sn-2 position of membrane glycerophospholipids to liberate arachidonic acid, a precursor of eicosanoids including prostaglandins and leukotrienes.

This enzyme has been proposed to hydrolyze phosphatidylcholine in lipoproteins to liberate lyso-PC and free fatty acids in the arterial wall, thereby facilitating the accumulation of bioactive lipids and modified lipoproteins in atherosclerotic foci. Phospholipase A2 IIA can exert beneficial action in the context of infectious diseases since recent studies have shown that this enzyme exhibits potent bactericidal effects. Induction of the synthesis of Phospholipase A2 IIA is generally initiated by endotoxin and a limited number of cytokines via paracrine and/or autocrine processes.

Uniprot ID:[P00630](#)**NCBI:**[NP_001011614](#)**GeneID:**[406141](#)**Host / Isotype:**

Rabbit / IgG

Immunogen:

Phospholipase A2 isolated and purified from bee venom.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format:

State: Lyophilized Hyperimmune IgG fraction.
Purification: Ammonium Sulphate Precipitation and Ion Exchange Chromatography.
Buffer System: PBS, pH 7.2 without preservatives.
Label: Biotin
Molar Ratio: Biotin/IgG ~6.1
Reconstitution: Restore by adding 1 ml of sterile distilled water.

Applications:

This antibody can be used:
In precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques).
Recommended Dilutions:
non-precipitating antibody-binding assays: 1/1,000-1/40,000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Phospholipase A2 from bee venom.

The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, Single Radial Immunodiffusion (Ouchterlony), Block Titration, ELISA, Immunoblotting and Enzyme Inhibition.

Cross-reactivities against enzymes of other sources may occur but have not been determined.

Species: bee venom.

Other species not tested.

Storage:

Store lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.

Avoid Repeated thawing and freezing.

Shelf life: one year from despatch.