

Human PLA2G4A ELISA Kit | PLA2G4A elisa kit

Human PLA2G4A PicoKine ELISA Kit

CATALOG #
AAA125272

REACTIVITY
Human

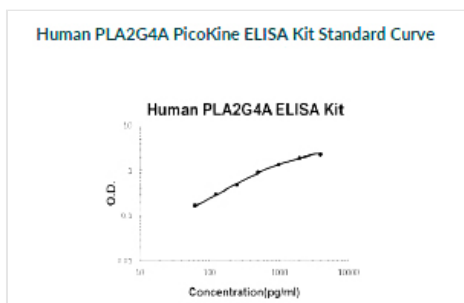
PRODUCT SYNONYMS

PLA2G4A; Human PLA2G4A PicoKine ELISA Kit; Human PLA2G4A; phospholipase A2 group IVA; Cytosolic phospholipase A2; Cpla2; Phospholipase A2 group IVA; Phospholipase A2; Phosphatidylcholine 2-acylhydrolase; Lysophospholipase; CPLA2; PLA2G4; PLA2G4A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human PLA2G4A
Sequence Length	749
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<50pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PLA2G4A elisa kit	Principle of the Assay: The Picokine™ Human PLA2G4A Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human PLA2G4A with a 96-well strip plate that is pre-coated with antibody specific for PLA2G4A. The detection antibody is a biotinylated antibody specific for PLA2G4A. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human PLA2G4A with immunogen: Expression system for standard: NSO, Immunogen sequence: M1-A749. The kit is analytically validated with ready to use reagents. To measure Human PLA2G4A, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human PLA2G4A in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human PLA2G4A in the sample.!!Background/Introduction: Cytosolic phospholipase A2 is an enzyme that in humans is encoded by the PLA2G4A gene. It is mapped to 1q31.1. This gene encodes a member of the cytosolic phospholipase A2 group IV family. The enzyme catalyzes the hydrolysis of membrane phospholipids to release arachidonic acid which is subsequently metabolized into eicosanoids. Eicosanoids, including prostaglandins and leukotrienes, are lipid-based cellular hormones that regulate hemodynamics, inflammatory responses, and other intracellular pathways. The hydrolysis reaction also produces lysophospholipids that are converted into platelet-activating factor. The enzyme is activated by increased intracellular Ca2+ levels and phosphorylation, resulting in its translocation from the cytosol and nucleus to perinuclear membrane vesicles.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	23943920
NCBI GeneID	5321
NCBI Accession #	NP_077734.1
NCBI GenBank Nucleotide #	NP_077734.1
UniProt Accession #	P47712
NCBI Official Full Name	cytosolic phospholipase A2 isoform 1
NCBI Official Synonym Full Names	phospholipase A2 group IVA
NCBI Official Symbol	PLA2G4A
NCBI Official Synonym Symbols	GURDP; cPLA2; PLA2G4; cPLA2-alpha
NCBI Protein Information	cytosolic phospholipase A2
UniProt Protein Name	Cytosolic phospholipase A2
UniProt Gene Name	PLA2G4A
UniProt Synonym Gene Names	CPLA2; PLA2G4; cPLA2
UniProt Entry Name	PA24A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/pla2g4a/125272>