Lipoprotein-Associated Phospholipase A2 (LP-PL-A2) ELISA Kit for Camel

PRODUCT OVERVIEW

Product Name	Lipoprotein-Associated Phospholipase A2 (LP-PL-A2), ELISA Kit
Full Product Name	Camel Lipoprotein-Associated Phospholipase A2 ELISA Kit
Product Gene Name	LP-PL-A2 elisa kit
Species Reactivity	Camel
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	50,077 Da
OMIM	147050
3D Structure	ModBase 3D Structure for Q13093
Related Product Information for LP-PL-A2 elisa kit	MBS100778 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Lipoprotein-Associated Phospholipase A2 (LP-PL-A2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing LP-PL-A2. The ELISA analytical biochemical technique of the MBS100778 kit is based on LP-PL-A2 antibody-LP-PL-A2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect LP-PL-A2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, LP-PL-A2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of LP-PL-A2 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LP-PL-A2. It may not necessarily be applicable to this product.

NCBI GI #	1314246
NCBI GeneID	7941
NCBI Accession #	AAB04170.1
UniProt Primary Accession #	Q13093
UniProt Secondary Accession #	Q15692; Q5VTT1; Q8IVA2; A5HTT5
UniProt Related Accession #	Q13093
NCBI Official Full Name	LDL-phospholipase A2
NCBI Official Synonym Full Names	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)
NCBI Official Symbol	PLA2G7
NCBI Official Synonym Symbols	PAFAD; PAFAH; LP-PLA2; LDL-PLA2
UniProt Protein Name	Platelet-activating factor acetylhydrolase
UniProt Synonym Protein Names	1-alkyl-2-acetylglycerophosphocholine esterase; 2-acetyl-1-alkylglycerophosphocholine esterase; Group-VIIA phospholipase A2; gVIIA-PLA2; LDL-associated phospholipase A2; LDL-PLA(2); PAF 2-acylhydrolase
UniProt Gene Name	PLA2G7

UniProt Synonym Gene Names	PAFAH; PAF acetylhydrolase; gVIIA-PLA2; LDL-PLA(2)
UniProt Entry Name	PAFA_HUMAN
NCBI Protein Information	platelet-activating factor acetylhydrolase; LDL-PLA(2); gVIIA-PLA2; PAF 2-acylhydrolase; PAF acetylhydrolase; group-VIIA phospholipase A2; LDL-associated phospholipase A2; lipoprotein-associated phospholipase A2; 1-alkyl-2-acetylglycerophosphocholine esterase; 2-acetyl-1-alkylglycerophosphocholine esterase
NCBI Summary for LP-PL-A2	The protein encoded by this gene is a secreted enzyme that catalyzes the degradation of platelet-activating factor to biologically inactive products. Defects in this gene are a cause of platelet-activating factor acetylhydrolase deficiency. Two transcript variants encoding the same protein have been found for this gene.[provided by RefSeq, Dec 2009]
UniProt Comments for LP-PL-A2	PLA2G7: Modulates the action of platelet-activating factor (PAF) by hydrolyzing the sn-2 ester bond to yield the biologically inactive lyso-PAF. Has a specificity for substrates with a short residue at the sn-2 position. It is inactive against long-chain phospholipids. Defects in PLA2G7 are the cause of platelet-activating factor acetylhydrolase deficiency (PAFAD). An enzymatic deficiency that results in exacerbated bodily response to inflammatory agents. Asthmatic individuals affected by this condition may manifest severe respiratory symptoms. Defects in PLA2G7 are a cause of susceptibility to asthma (ASTHMA). The most common chronic disease affecting children and young adults. It is a complex genetic disorder with a heterogeneous phenotype, largely attributed to the interactions among many genes and between these genes and the environment. It is characterized by recurrent attacks of paroxysmal dyspnea, with weezing due to spasmodic contraction of the bronchi. PLA2G7 variants can be a risk factor for the development of asthma and PLA2G7 may act as a modifier gene that modulates the severity of this disease. Defects in PLA2G7 are a cause of susceptibility to atopic hypersensitivity (ATOPY). A condition characterized by predisposition to develop hypersensitivity reactions. Atopic individuals can develop eczema, allergic rhinitis and allergic asthma. Belongs to the AB hydrolase superfamily. Lipase family. Protein type: Lipid Metabolism - ether lipid; Secreted, signal peptide; Secreted; EC 3.1.1.47; Hydrolase Chromosomal Location of Human Ortholog: 6p21.2-p12 Cellular Component: cytoplasm; extracellular region Molecular Function: calcium-independent phospholipase A2 activity; phospholipid binding; 1-alkyl-2-acetylglycerophosphocholine esterase activity Biological Process: cellular protein metabolic process; lipid catabolic process; positive regulation of inflammatory response Disease: Asthma, Susceptibility To; Ige Responsiveness, Atopic; Platelet-activating Factor Acetylhydrolase Deficiency
Research Articles on LP-PL-A2	**1.** Significant associations between serial changes in Lp-PLA2 activity and changes in fibrous cap thickness and plaque volume were observed in patients with acute coronary syndromes.
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