Human Lipoprotein-associated phospholipase A2 (Lp-PLA2) ELISA Kit

Catalog No: #EK8471

Package Size: #EK8471-1 48T #EK8471-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Lipoprotein-associated phospholipase A2 (Lp-PLA2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LDL-PLA2; PLA2G7; PAFAH; 1-alkyl-2-acetylglycerophosphocholine esterase|2-acetyl-1-alkylglycerophosphocholine esterase|PAF 2-acylhydrolase|lipoprotein-associated phospholipase A2|phospholipase A2;
Accession No.	Q13093
Uniprot	Q13093
GeneID	7941;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:3.125-200 IU/mL

Sensitivity:1.15 IU/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LP-PLA2 in samples. An antibody specific for LP-PLA2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLP-PLA2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LP-PLA2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LP-PLA2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Lipoprotein-associated phospholipase A2 (Lp-PLA2, also known as platelet activating factor acetyl-hydrolase), is a relatively recent marker that has emerged as a major, independent predictor of CHD. Lp-PLA2 is an active phospholipase that circulates in plasma bound to LDL, and it appears to act almost exclusively on oxidized LDL to generate lysophosphatidyl-choline, which is proinflammatory and is considered to be atherogenic. Thus, Lp-PLA2 represents an interesting link between lipoproteinoxidation and vascular inflammation, which likely explain its strong, independent association with CHD risk. Data from the recent ARIC study have indicated that the

predictive power of Lp-PLA2 is attenuated after adjustment for multiple established risk factors.

Note: This product is for in vitro research use only