

Rat lipoprotein-associated phospholipase A2, Lp-PLA2 ELISA Kit | Lp-PLA2 elisa kit

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CATALOG #
AAA80513

REACTIVITY
Rat

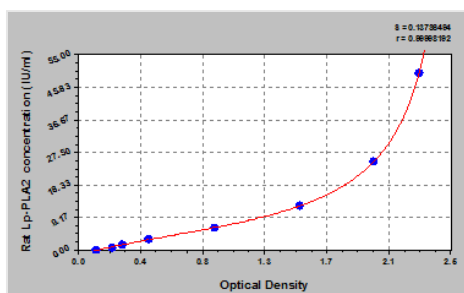
PRODUCT SYNONYMS

lipoprotein-associated phospholipase A2; Lp-PLA2; Rat lipoprotein-associated phospholipase A2; Lp-PLA2 ELISA Kit; Lp-PLA2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Detection Range	7.8 ng/ml-500 ng/ml
Sensitivity	2 ng/ml
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Lp-PLA2 elisa kit

Introduction: 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 lipoprotein oxidation 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, but remains strong in the subgroup with LDL cholesterol levels of < 130 mg/dL. Moreover, this study indicated that there was an interaction between Lp-PLA2 and CRP levels, and the strongest predictor for CHD risk (hazard ratio = 2.95) was found for the combination of high CRP (> 3 mg/L) and high Lp-PLA2 (= 422 ug/L) in the presence of LDL < 130 mg/dL. Therefore, CRP and Lp-PLA2 appear to be particularly useful in predicting CHD risk in the presence of LDL cholesterol in the normal range.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to Lp-PLA2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for Lp-PLA2 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain Lp-PLA2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of Lp-PLA2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/lipoprotein-associated-phospholipase-a2-lp-pla2/80513>