

Phospholipase A2, Lipoprotein Associated (LpPLA2) Active Protein | LpPLA2 active protein

Active Phospholipase A2, Lipoprotein Associated (LpPLA2)

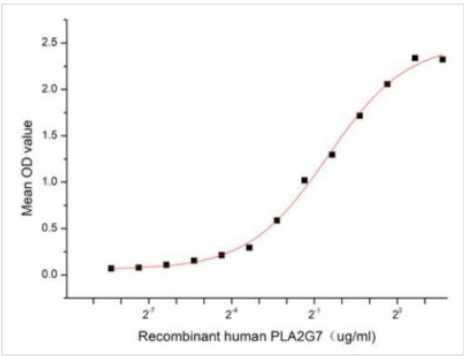
CATALOG # AAA21141	HOST E. coli	APPLICATIONS Cell Culture, Activity Assay
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PRODUCT SYNONYMS

Phospholipase A2; Lipoprotein Associated (LpPLA2); Active Phospholipase A2; PLA2G7; PAF-AH; PAFAH; Lp-PLA2; LDL-PLA2; Platelet Activating Factor Acetylhydrolase; Plasma; Group VII; LDL-associated phospholipase A2; LpPLA2 active protein

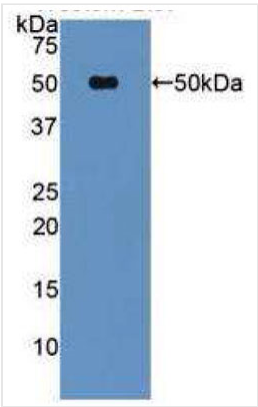
PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Concentration	100ug/mL (varies by lot)
Applicable Applications for LpPLA2 active protein	Cell Culture, Activity Assay
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression
Residues	Phe22~Asn441
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	7.1
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C. Aliquot and store at -80°C. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



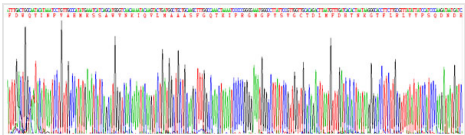
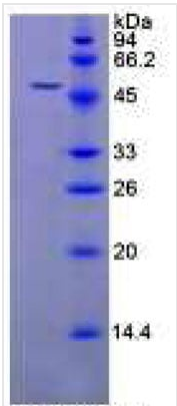
Activity

Phospholipase A2 Group VII (PLA2G7) which is also known as Lp-PLA2, is a plasma enzyme bound to lipoproteins: 80% bound to LDL, 15%-20% to HDL, and the remainder to VLDL. It is produced in major by mature macrophages and activated platelets and catalyzes the degradation of platelet-activating factor to biologically inactive products. Besides, Paraoxonase 1 (PON1) has been identified as an interactor of PLA2G7, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human PLA2G7 and recombinant rat PON1. Briefly, PLA2G7 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to PON1-coated microtiter wells and incubated for 1h at 37?. Wells were washed with PBST and incubated for 1h with anti-PLA2G7 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37?. Finally, add 50uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human PLA2G7 and recombinant rat PON1 was shown in Figure 1, the EC50 for this effect is 0.7 ug/mL



WB (Western Blot)

Western BlotSample: Recombinant LpPLA2, HumanAntibody: Rabbit Anti-Human LpPLA2 Ab



Gene Sequencing (extract)

SDS-PAGE
SDS-PAGE



Sequence Information

