

## General Lysophosphatidylcholine (LPC) ELISA Kit | LPC elisa kit

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CATALOG #  
**AAA22861**

REACTIVITY  
**General**

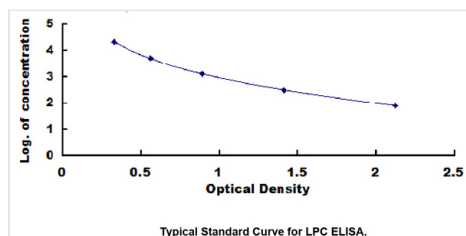
### PRODUCT SYNONYMS

Lysophosphatidylcholine (LPC); General Lysophosphatidylcholine (LPC) ELISA Kit; lysoPC; Lysolecithin; 1-Palmitoyl-sn-Glycero-3-Phosphocholine; LPC elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of LPC. No significant cross-reactivity or interference between LPC and analogues was observed.                                                                                                                                                                                                                                                                                                                    |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range         | 78.125-20,000ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sensitivity             | < 27.142ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LPC were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                      |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LPC were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                    |
| Preparation and Storage | The stability of 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.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for LPC elisa kit | <p>Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to LPC has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled LPC and unlabeled LPC (Standards or samples) with the pre-coated antibody specific to LPC. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of LPC in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of LPC in the sample.</p> <p>Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of LPC in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
| References                                    | <p><a href="#">Radiation-induced lipoprotein-associated phospholipase A2 increases lysophosphatidylcholine and induces endothelial cell damage; Toxicology; 2021 Jun 30;458:152841.; PMID: 34216699</a>; So-Ra Kim; Division of Radiation Biomedical Research, Korea Institute of Radiological and Medical Sciences, Seoul, 01812, Republic of Korea; School of Radiological and Medico-Oncological Sciences, University of Science and Technology, Daejeon, 34054, Republic of Korea.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**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://www.aaabiotech.com/general-elisa-kits/lysophosphatidylcholine-lpc/22861>