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## Datasheet for ABIN5657794 **PLA2G2A ELISA Kit**

### Overview

Quantity:	96 tests
Target:	PLA2G2A
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.188 ng/mL - 12 ng/mL
Minimum Detection Limit:	0.188 ng/mL
Application:	ELISA

### Product Details

Sample Type:	Plasma, Serum, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Phospholipase A2, Group IIA (PLA2G2A). No significant cross-reactivity or interference between Phospholipase A2, Group IIA (PLA2G2A) and analogues was observed.
Sensitivity:	0.082 ng/mL

### Target Details

Target:	PLA2G2A
Alternative Name:	Phospholipase A2, Group IIA ( <a href="#">PLA2G2A Products</a> )

## Target Details

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Background:	Gene Name: Phospholipase A2, Group IIA Gene Aliases: PLA2, MOM1, PLA2B, PLA2L, PLA2S, PLAS1, sPLA2(platelets,synovial fluid), Non-pancreatic secretory phospholipase A2, Phosphatidylcholine 2-acylhydrolase 2A
Gene ID:	29692
UniProt:	<a href="#">P14423</a>
Pathways:	<a href="#">Stem Cell Maintenance</a> , <a href="#">Inositol Metabolic Process</a>

## Application Details

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Comment:	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. 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.
Assay Time:	3 h
Plate:	Pre-coated
Protocol:	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Phospholipase A2, Group IIA (PLA2G2A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Phospholipase A2, Group IIA (PLA2G2A). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Phospholipase A2, Group IIA (PLA2G2A), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Phospholipase A2, Group IIA (PLA2G2A) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Phospholipase A2, Group IIA (PLA2G2A) were tested 20 times on one plate, respectively Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Phospholipase A2, Group IIA (PLA2G2A) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%

## Application Details

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Restrictions: For Research Use only

## Handling

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Handling Advice: The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

Storage: 4 °C,-20 °C

Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

Expiry Date: 4-8 months