Human Calcium-dependent phospholipase A2(PLA2G5) ELISA kit

Product Code	CSB-EL018103HU
Protein Biological Process 2	Lipogenesis and lipometabolism
Abbreviation	PLA2G5
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	phospholipase A2, group V
Uniprot No.	P39877
Alias	DKFZp686C2294, GV-PLA2, MGC46205, PLA2-10, hVPLA(2), Ca2+-dependent phospholipase A2|phosphatidylcholine 2-acylhydrolase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Lipid degradation
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.18 ng/mL-12 ng/mL
Sensitivity	0.04 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	PLA2G5
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human PLA2G5 ELISA Kit was designed for the quantitative measurement of Human PLA2G5 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.18 ng/mL-12 ng/mL and the sensitivity is 0.04 ng/mL.
Target Details	This gene is a member of the secretory phospholipase A2 family. It is located in a tightly-linked cluster of secretory phospholipase A2 genes on chromosome 1.

The encoded enzyme catalyzes the hydrolysis of membrane phospholipids to generate lysophospholipids and free fatty acids including arachidonic acid. It preferentially hydrolyzes linoleoyl-containing phosphatidylcholine substrates. Secretion of this enzyme is thought to induce inflammatory responses in neighboring cells. Alternatively spliced transcript variants have been found, but their full-length nature has not been determined.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human PLA2G5 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:5	Average %	89
	Range %	84-93
1:10	Average %	98
	Range %	84-102
1:20	Average %	104
	Range %	100-110
1:40	Average %	95
	Range %	90-100

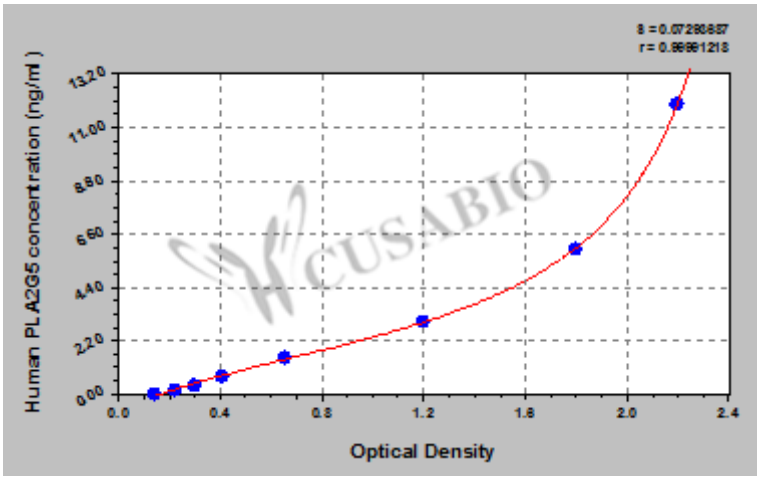
Recovery

The recovery of human PLA2G5 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	84	80-88
EDTA plasma (n=4)	96	91-100

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
12	2.207	2.150	2.179	2.023
6	1.768	1.801	1.785	1.629
3	1.202	1.184	1.193	1.037
1.5	0.683	0.634	0.659	0.503
0.75	0.403	0.428	0.416	0.260
0.375	0.321	0.301	0.311	0.155
0.18	0.245	0.227	0.236	0.080
0	0.159	0.152	0.156	

Msds

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