Human Phosphatidylinositol-glycan-specific phospholipase D(GPLD1) ELISA kit

Product Code	CSB-EL009721HU
Abbreviation	GPLD1
Target Name	glycosylphosphatidylinositol specific phospholipase D1
Uniprot No.	P80108
Alias	GPIPLD, GPIPLDM, MGC22590, PIGPLD, PIGPLD1, GPI-specific phospholipase D|glycoprotein phospholipase D|glycosylphosphatIdylinositol-specific phospholipase D|glycosylphosphatidylinositol specific phos
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 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	Cardiovascular
Gene Names	GPLD1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GPLD1 ELISA Kit was designed for the quantitative measurement of Human GPLD1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL.
Target Details	Many proteins are tethered to the extracellular face of eukaryotic plasma membranes by a glycosylphosphatidylinositol (GPI) anchor. The GPI-anchor is a glycolipid found on many blood cells. This protein is a GPI degrading enzyme. Glycosylphosphatidylinositol specific phospholipase D1 hydrolyzes the inositol phosphate linkage in proteins anchored by phosphatidylinositol glycans, thereby releasing the attached protein from the plasma membrane.
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 GPLD1 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)
1:200	Average %	90
	Range %	84-96
1:400	Average %	97
	Range %	91-103
1:800	Average %	103
	Range %	97-109
1:1600	Average %	89
	Range %	83-95

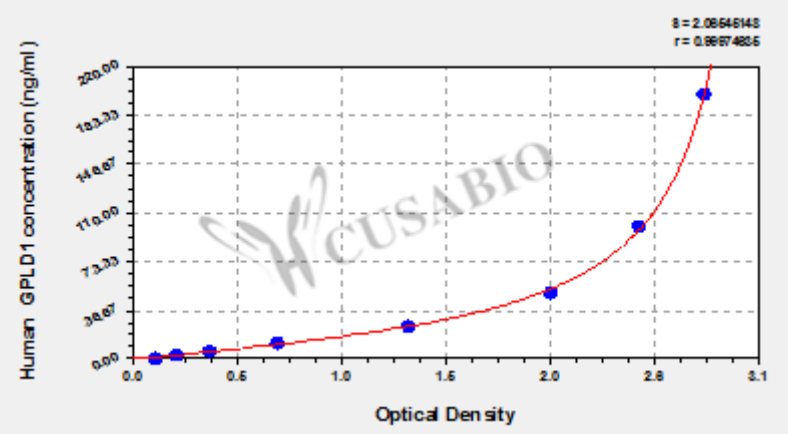
Recovery

The recovery of human GPLD1 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)	100	94-106
EDTA plasma (n=4)	95	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
200	2.841	2.752	2.797	2.673
100	2.564	2.402	2.483	2.359
50	2.135	1.965	2.050	1.926
25	1.358	1.355	1.357	1.233
12.5	0.691	0.744	0.718	0.594
6.25	0.371	0.395	0.383	0.259
3.12	0.225	0.226	0.226	0.102
0	0.125	0.123	0.124	

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL009721HU.pdf","filename":"MSDS"}}