



Human Lipocalin-1(LCN1) ELISA kit

Product Code	CSB-EL012810HU
Abbreviation	LCN1
Protein Biological Process 1	Neurobiology
Target Name	lipocalin 1 (tear prealbumin)
Uniprot No.	P31025
Alias	MGC71975, PMFA, TP, VEGP, OTTHUMP00000022539 Von Ebner gland protein lipocalin 1 lipocalin 1 (protein migrating faster than albumin, tear prealbumin) lipocalin 1-like 2 tear lipocalin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Sensory transduction
Sample Types	serum, plasma, tissue homogenates, saliva
Detection Range	1.56 ng/mL-100 ng/mL
Sensitivity	0.39 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	Cell Biology
Gene Names	LCN1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human LCN1 ELISA Kit was designed for the quantitative measurement of Human LCN1 protein in serum, plasma, tissue homogenates, saliva. It is a Sandwich ELISA kit, its detection range is 1.56 ng/mL-100 ng/mL and the sensitivity is 0.39 ng/mL.
Target Details	This protein belongs to the lipocalin family. Lipocalins are a group of extracellular proteins that are able to bind lipophiles by enclosure within their structures to minimize solvent contact. This protein may bind hydrophobic ligands and inhibit cysteine proteinases. It may also play a role in taste reception.



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 LCN1 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)
1:1	Average %	91
	Range %	86-95
1:2	Average %	102
	Range %	97-107
1:4	Average %	91
	Range %	85-97
1:8	Average %	97
	Range %	91-103

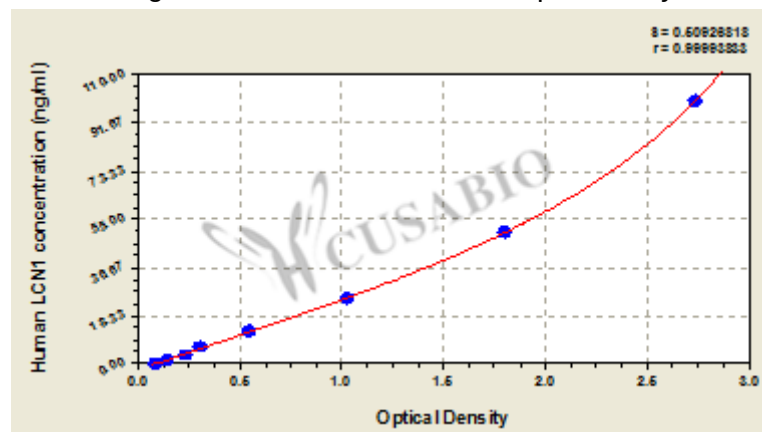
Recovery

The recovery of human LCN1 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)	94	89-98
EDTA plasma (n=4)	92	90-94

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
100	2.714	2.768	2.741	2.654
50	1.812	1.801	1.807	1.720
25	1.005	1.058	1.032	0.945
12.5	0.538	0.568	0.553	0.466
6.25	0.301	0.325	0.313	0.226
3.12	0.245	0.238	0.242	0.155
1.56	0.142	0.156	0.149	0.062
0	0.088	0.086	0.087	

**Msd**

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