



Human low-density lipoprotein-receptor-related protein,LRP-6 ELISA Kit

Product Code	CSB-E08952h
Abbreviation	LRP6
Protein Biological Process 1	Immunity
Target Name	low density lipoprotein receptor-related protein 6
Uniprot No.	O75581
Alias	ADCAD2, FLJ90062, FLJ90421
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Endocytosis
Sample Types	serum, tissue homogenates, cell lysates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Signal Transduction
Gene Names	LRP6
Tag Info	quantitative
Protein Description	Sandwich

Description

This human LRP6 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human LRP6 in multiple samples, including serum, tissue homogenates, or cell lysates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the LRP6 overexpression has been reported to induce the growth of several types of cancers, including glioblastoma multiforme and gastric cancer. levels in the sample and is measured at 450 nm through a microplate reader.

LRP6 is involved in many biological activities such as cell proliferation,



specification, metastatic cancer, and embryonic development. LRP6 is essential for the proper development of different organs in vertebrates, such as *Xenopus laevis*, chickens, and mice. In humans, LRP6 overexpression and mutations have been found in multiple complex diseases including hypertension, atherosclerosis, and cancers. Clinical studies have shown that LRP6 is implicated in various kinds of cancer, such as bladder and breast cancer.

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 LRP-6 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 %	88
	Range %	83-91
1:2	Average %	92
	Range %	86-97
1:4	Average %	94
	Range %	88-98
1:8	Average %	102
	Range %	98-104

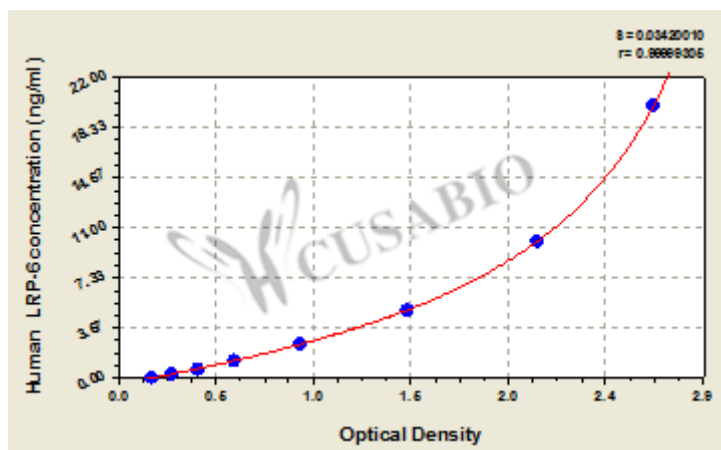
Recovery

The recovery of Human LRP-6 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	88-98
EDTA plasma (n=4)	86	82-92

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
20	2.625	2.729	2.677	2.494
10	2.146	2.047	2.097	1.914
5	1.444	1.463	1.454	1.271
2.5	0.912	0.928	0.920	0.737
1.25	0.597	0.586	0.592	0.409
0.625	0.401	0.416	0.409	0.226
0.312	0.287	0.275	0.281	0.098
0	0.182	0.183	0.183	

Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E08952h.pdf",
    "filename": "MSDS"
  }
}
```