



Human Major prion protein(PRNP) ELISA kit

Product Code	CSB-EL018739HU
Abbreviation	PRNP
Protein Biological Process 1	Cell Cycle
Target Name	prion protein
Uniprot No.	P04156
Alias	ASCR, CD230, CJD, GSS, MGC26679, PRIP, PrP, PrP27-30, PrP33-35C, PrPc, prion, CD230 antigen major prion protein p27-30 prion protein PrP prion-related protein
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cell cycle
Sample Types	serum, plasma, tissue homogenates
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	Neuroscience
Gene Names	PRNP
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human PRNP ELISA Kit was designed for the quantitative measurement of Human PRNP protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.

Target Details

This protein is a membrane glycosylphosphatidylinositol-anchored glycoprotein that tends to aggregate into rod-like structures. The encoded protein contains a highly unstable region of five tandem octapeptide repeats. This gene is found on chromosome 20, approximately 20 kbp upstream of a gene which encodes a biochemically and structurally similar protein to the one encoded by this gene. Mutations in the repeat region as well as elsewhere in this gene have been



associated with Creutzfeldt-Jakob disease, fatal familial insomnia, Gerstmann-Straussler disease, Huntington disease-like 1, and kuru. Alternative splicing results in multiple transcript variants encoding the same protein.

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 PRNP 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 %	87
	Range %	81-90
1:2	Average %	100
	Range %	96-104
1:4	Average %	93
	Range %	87-97
1:8	Average %	98
	Range %	91-103

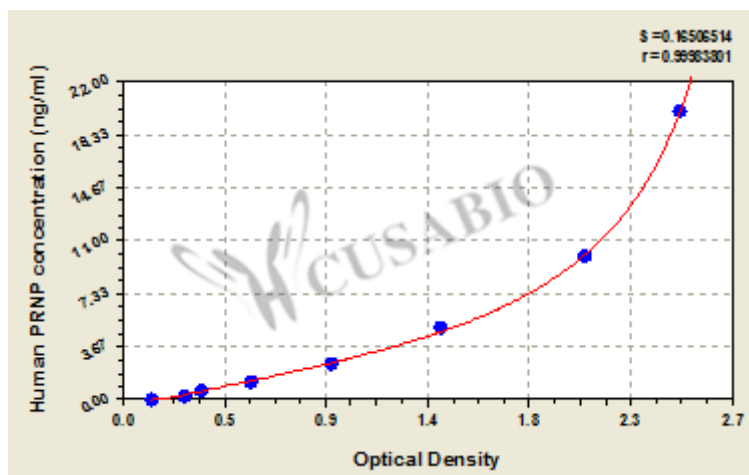
Recovery

The recovery of human PRNP 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	88-97
EDTA plasma (n=4)	93	87-98

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	2.502	2.444	2.473	2.331
10	2.089	2.024	2.057	1.915
5	1.426	1.411	1.419	1.277
2.5	0.930	0.939	0.935	0.793
1.25	0.588	0.568	0.578	0.436
0.625	0.367	0.355	0.361	0.219
0.312	0.281	0.287	0.284	0.142
0	0.140	0.144	0.142	

Msds

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