



Rat Tau Proteins ELISA kit

Product Code	CSB-E13729r
Abbreviation	MAPT
Target Name	microtubule-associated protein tau
Uniprot No.	P19332
Alias	DDPAC, FLJ31424, FTDP-17, MAPTL, MGC138549, MSTD, MTBT1, MTBT2, PPND, TAU, G protein beta1/gamma2 subunit-interacting factor 1 microtubule-associated protein tau, isoform 4
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, cerebrospinal fluid (CSF)
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 pg/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	Mapt
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat MAPT ELISA Kit was designed for the quantitative measurement of Rat MAPT protein in serum, plasma, cerebrospinal fluid (CSF). It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL.

Target Details

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer s disease, Pick s disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.

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 rat tau proteins 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 %	98
	Range %	95-101
1:10	Average %	90
	Range %	88-92
1:20	Average %	85
	Range %	81-89
1:40	Average %	98
	Range %	95-101

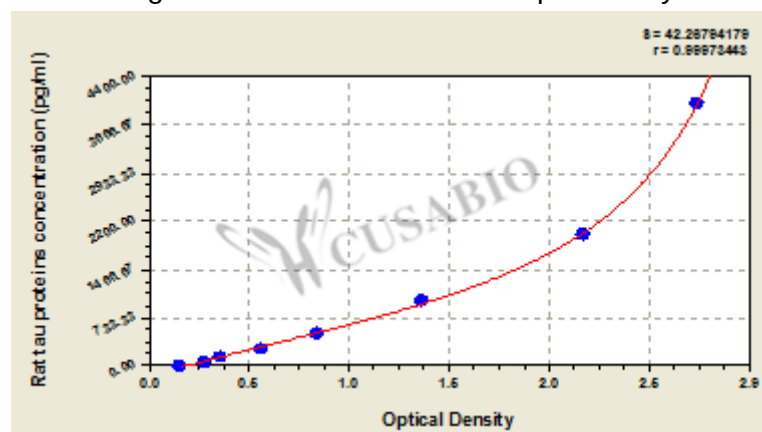
Recovery

The recovery of rat tau proteins 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)	101	99-105
EDTA plasma (n=4)	87	84-90

Typical

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



pg/ml	OD1	OD2	Average	Corrected
4000	2.694	2.678	2.686	2.523
2000	2.104	2.156	2.130	1.967
1000	1.330	1.356	1.343	1.180
500	0.825	0.836	0.831	0.668
250	0.552	0.568	0.560	0.397
125	0.359	0.368	0.364	0.201
62.5	0.276	0.298	0.287	0.124
0	0.167	0.159	0.163	

Msds

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