



Mouse Transthyretin(TTR) ELISA kit

Product Code	CSB-EL025270MO
Abbreviation	TTR
Protein Biological Process 1	Transport
Target Name	transthyretin
Uniprot No.	P07309
Alias	HsT2651, PALB, TBPA, prealbumin, amyloidosis type I thyroxine-binding prealbumin
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Transport
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	Ttr
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse TTR ELISA Kit was designed for the quantitative measurement of Mouse TTR 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

This gene encodes transthyretin, one of the three prealbumins including alpha-1-antitrypsin, transthyretin and orosomucoid. Transthyretin is a carrier protein; it transports thyroid hormones in the plasma and cerebrospinal fluid, and also transports retinol (vitamin A) in the plasma. The protein consists of a tetramer of identical subunits. More than 80 different mutations in this gene have been reported; most mutations are related to amyloid deposition, affecting predominantly peripheral nerve and/or the heart, and a small portion of the gene



mutations is non-amyloidogenic. The diseases caused by mutations include amyloidotic polyneuropathy, euthyroid hyperthyroxinaemia, amyloidotic vitreous opacities, cardiomyopathy, oculoleptomeningeal amyloidosis, meningocerebrovascular amyloidosis, carpal tunnel syndrome, etc.

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 mouse TTR 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)
1:1000	Average %	102
	Range %	96-108
1:2000	Average %	95
	Range %	91-99
1:4000	Average %	89
	Range %	85-94
1:8000	Average %	86
	Range %	82-92

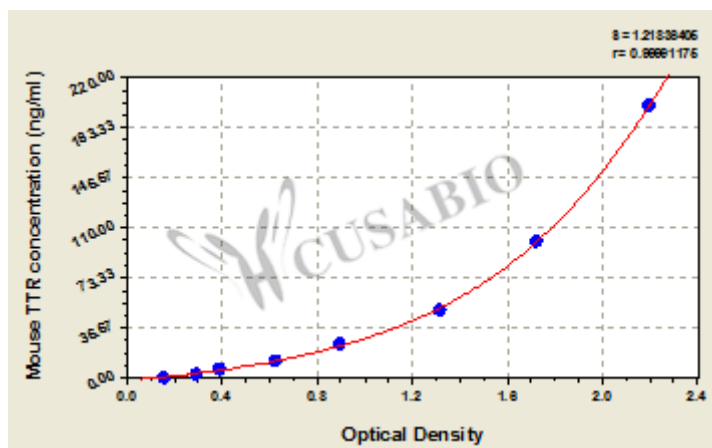
Recovery

The recovery of mouse TTR 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	90-98
EDTA plasma (n=4)	95	90-101

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	2.285	2.184	2.235	2.061
100	1.692	1.813	1.753	1.579
50	1.335	1.356	1.346	1.172
25	0.913	0.924	0.919	0.745
12.5	0.651	0.640	0.646	0.472
6.25	0.412	0.401	0.407	0.233
3.12	0.312	0.307	0.310	0.136
0	0.174	0.173	0.174	?

Msds

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