Mouse myelin basic protein,MBP ELISA Kit

Product Code	CSB-E08285m
Abbreviation	MBP
Target Name	myelin basic protein
Uniprot No.	P04370
Alias	MGC99675, Golli-mbp|OTTHUMP00000174383
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	18.75 pg/mL-1200 pg/mL
Sensitivity	4.7 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	Neuroscience
Gene Names	Mbp
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse MBP ELISA Kit was designed for the quantitative measurement of Mouse MBP protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 18.75 pg/mL-1200 pg/mL and the sensitivity is 4.7 pg/mL .
Target Details	The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called Golli-MBP) that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this

arrangement is important for the function and/or regulation of these genes.

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 MBP 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 %	89
	Range %	82-97
1:2	Average %	96
	Range %	91-104
1:4	Average %	97
	Range %	95-106
1:8	Average %	95
	Range %	89-99

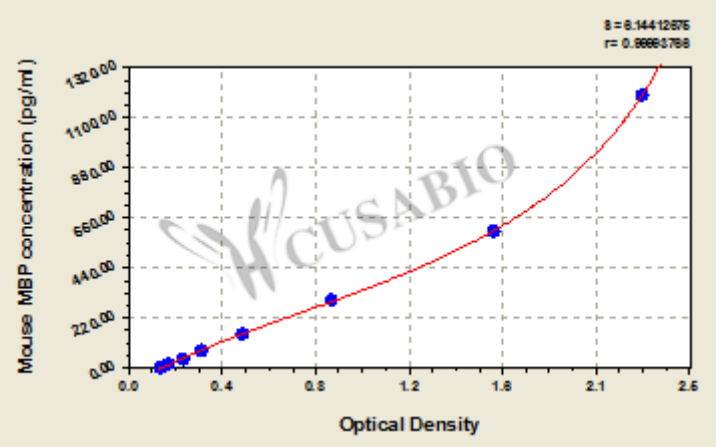
Recovery

The recovery of mouse MBP 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	90-100
EDTA plasma (n=4)	99	94-107

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
1200	2.304	2.203	2.254	2.103
600	1.655	1.554	1.605	1.454
300	0.903	0.892	0.898	0.747
150	0.505	0.516	0.511	0.360
75	0.326	0.337	0.332	0.181
37.5	0.244	0.255	0.250	0.099
18.75	0.189	0.185	0.187	0.036
0	0.151	0.150	0.151	?

Msds

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