



Mouse Protein S100-B(S100B) ELISA kit

Product Code	CSB-EL020643MO
Abbreviation	S100B
Target Name	S100 calcium binding protein B
Uniprot No.	P50114
Alias	NEF, S100, S100beta, OTTHUMP00000174958 S-100 calcium-binding protein, beta chain S100 beta S100 calcium binding protein, beta (neural) S100 calcium-binding protein, beta S100 calcium-binding protei
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 pg/mL-200 pg/mL
Sensitivity	0.78 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	S100b
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse S100B ELISA Kit was designed for the quantitative measurement of Mouse S100B protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 pg/mL-200 pg/mL and the sensitivity is 0.78 pg/mL.

Target Details

This protein is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21; however, this gene is located at 21q22.3. This protein may function in Neurite extension, proliferation of melanoma cells, stimulation of Ca²⁺ fluxes, inhibition of PKC-mediated phosphorylation, astrogliosis and axonal proliferation, and inhibition of microtubule assembly. Chromosomal rearrangements and altered expression of this gene have been implicated in several neurological, neoplastic, and other types of diseases, including



Alzheimer s disease, Down s syndrome, epilepsy, amyotrophic lateral sclerosis, melanoma, and type I diabetes.

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 S100B 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)
	Average %	95
1:1	Range %	91-99
	Average %	88
1:2	Range %	85-91
	Average %	93
1:4	Range %	88-98
	Average %	102
1:8	Range %	96-108

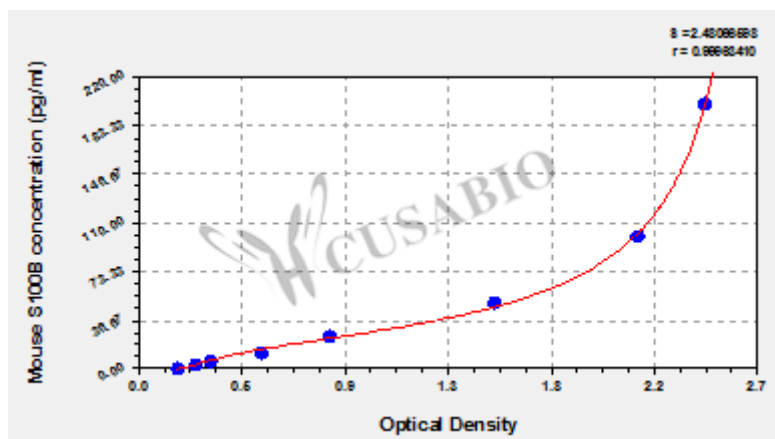
Recovery

The recovery of mouse S100B 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)	100	93-106
EDTA plasma (n=4)	92	87-96

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
200	2.542	2.366	2.454	2.268
100	2.153	2.175	2.164	1.978
50	1.546	1.553	1.550	1.364
25	0.821	0.855	0.838	0.652
12.5	0.525	0.560	0.543	0.357
6.25	0.329	0.325	0.327	0.141
3.12	0.266	0.256	0.261	0.075
0	0.188	0.184	0.186	?

Msds

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