



Dog S100 calcium binding protein B (S100B) ELISA kit

Product Code	CSB-EL020643DO
Abbreviation	S100B
Target Name	S100 calcium binding protein B (S100B)
Uniprot No.	E2QTP3
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Sample Types	serum, plasma, tissue homogenates
Detection Range	39 pg/mL-2500 pg/mL
Sensitivity	9.8 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
Tag Info	quantitative
Protein Description	Sandwich
Target Details	<p>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.</p>
Product Precision	<p>Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in twenty assays to assess.</p>



Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of pig 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)
1:1	Average %	85
	Range %	80-91
1:2	Average %	93
	Range %	87-98
1:4	Average %	102
	Range %	98-106
1:8	Average %	98
	Range %	94-103

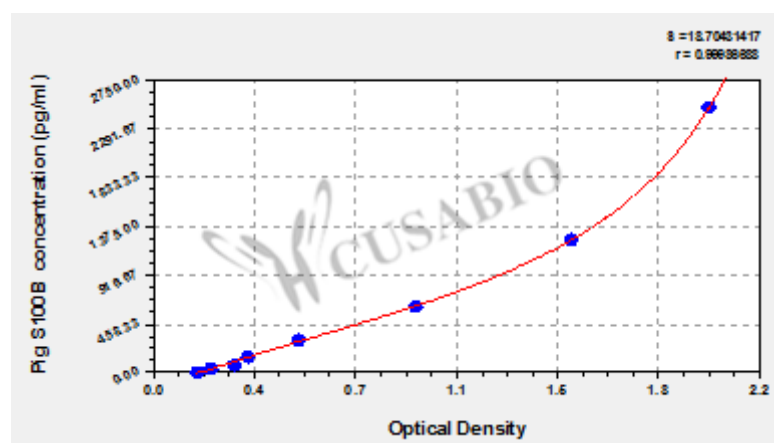
Recovery

The recovery of pig 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)	95	89-102
EDTA plasma (n=4)	89	84-95

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
2500	1.955	2.021	1.988	1.816
1250	1.474	1.522	1.498	1.326
625	0.911	0.987	0.949	0.777
312.5	0.526	0.536	0.531	0.359
156.2	0.365	0.345	0.355	0.183
78.1	0.293	0.312	0.303	0.131
39	0.221	0.226	0.224	0.052
0	0.175	0.169	0.172	?

Msds

{\"0\": {\"fileurl\": \"https://www.cusabio.com/uploadfile/msds/MSDS CSB-



EL020643DO.pdf", "filename": "MSDS"}}}