Human Protein S100-A2(S100A2) ELISA kit

Product Code	CSB-EL020630HU
Abbreviation	S100A2
Target Name	S100 calcium binding protein A2
Uniprot No.	P29034
Alias	RP11-49N14.8, CAN19, MGC111539, S100L, OTTHUMP00000032968|OTTHUMP00000032969|S100 calcium-binding protein A2
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	1.56 ng/mL-100 ng/mL
Sensitivity	0.39 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	Signal Transduction
Gene Names	S100A2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human S100A2 ELISA Kit was designed for the quantitative measurement of Human S100A2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 1.56 ng/mL-100 ng/mL and the sensitivity is 0.39 ng/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. This protein may have a tumor suppressor function. Chromosomal rearrangements and altered expression of this gene have been implicated in breast cancer.
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 human S100A2 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 %	105
	Range %	99-110
1:2	Average %	97
	Range %	92-101
1:4	Average %	90
	Range %	85-94
1:8	Average %	84
	Range %	80-88

Recovery

The recovery of human S100A2 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)	89	83-94
EDTA plasma (n=4)	96	90-100

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.
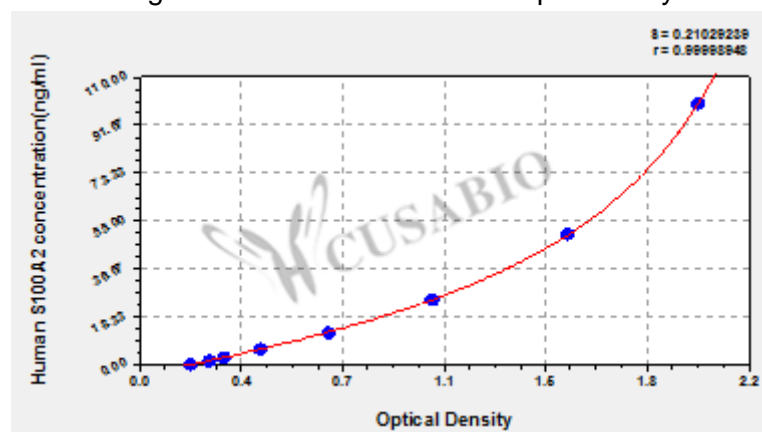
ng/ml	OD1	OD2	Average	Corrected
100	1.987	2.021	2.004	1.802
50	1.556	1.532	1.544	1.342
25	1.101	1.016	1.059	0.857
12.5	0.687	0.696	0.692	0.490
6.25	0.463	0.431	0.447	0.245
3.12	0.324	0.312	0.318	0.116
1.56	0.264	0.271	0.268	0.066
0	0.199	0.204	0.202	

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL020630HU.pdf","filename":"MSDS"}}