



Human S100 calcium binding protein P(S100P) ELISA Kit

Product Code	CSB-E14080h
Abbreviation	S100P
Target Name	S100 calcium binding protein P
Uniprot No.	P25815
Alias	MIG9, S100 calcium-binding protein P migration-inducing gene 9
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 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	S100P
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human S100P ELISA Kit was designed for the quantitative measurement of Human S100P protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 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 4p16. This protein, in addition to binding Ca ²⁺ , also binds Zn ²⁺ and Mg ²⁺ . This protein may play a role in the etiology of prostate 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 S100P 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)
1:5	Average %	85
	Range %	81-89
1:10	Average %	89
	Range %	82-93
1:20	Average %	87
	Range %	82-90
1:40	Average %	93
	Range %	90-96

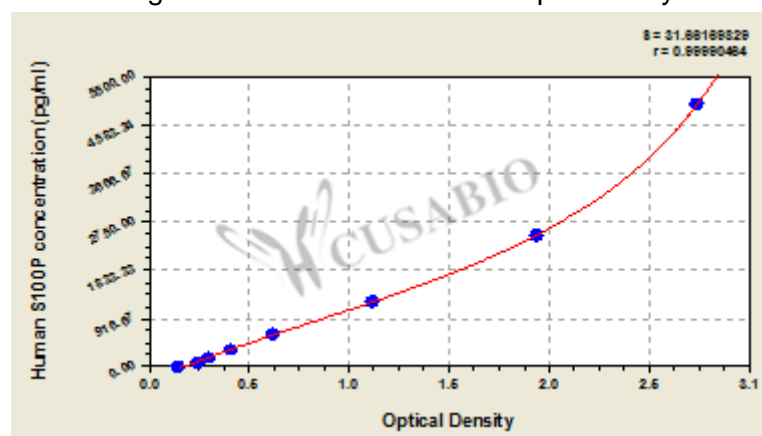
Recovery

The recovery of human S100P 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	85-94
EDTA plasma (n=4)	96	93-99

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
5000	2.684	2.901	2.793	2.631
2500	1.963	1.999	1.981	1.819
1250	1.168	1.121	1.145	0.983
625	0.632	0.652	0.642	0.480
312.5	0.415	0.436	0.426	0.264
156	0.309	0.320	0.315	0.153
78	0.268	0.255	0.262	0.100
0	0.161	0.163	0.162	

Msds

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