



Rat Protein S100-A9(S100A9) ELISA kit

Product Code	CSB-EL020642RA
Protein Biological Process 2	chemokine
Abbreviation	S100A9
Protein Biological Process 1	Immunity
Target Name	S100 calcium binding protein A9
Uniprot No.	P50116
Alias	60B8AG, CAGB, CFAG, CGLB, L1AG, LIAG, MAC387, MIF, MRP14, NIF, P14, S100 calcium-binding protein A9 S100 calcium-binding protein A9 (calgranulin B) calgranulin B
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.45 ng/mL-30 ng/mL
Sensitivity	0.11 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	Immunology
Gene Names	S100a9
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat S100A9 ELISA Kit was designed for the quantitative measurement of Rat S100A9 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.45 ng/mL-30 ng/mL and the sensitivity is 0.11 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 function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis.

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 rat S100A9 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 %	93
	Range %	89-97
1:2	Average %	100
	Range %	95-106
1:4	Average %	89
	Range %	84-93
1:8	Average %	96
	Range %	91-100

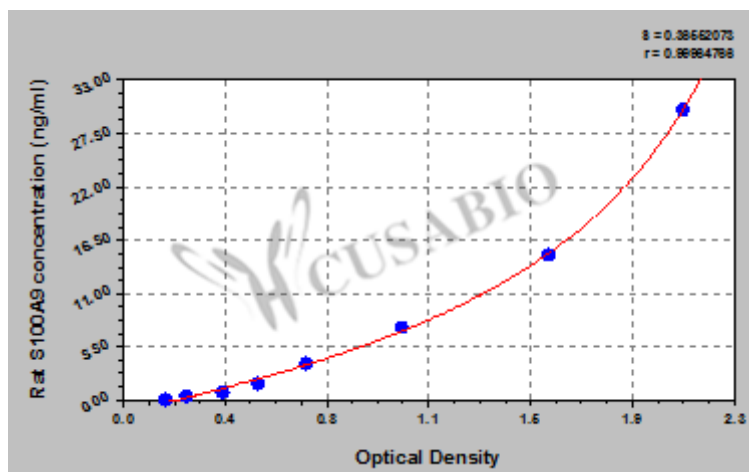
Recovery

The recovery of rat S100A9 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	90-100
EDTA plasma (n=4)	84	80-88

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
30	2.105	2.035	2.070	1.895
15	1.626	1.526	1.576	1.401
7.5	1.013	1.059	1.036	0.861
3.75	0.674	0.702	0.688	0.513
1.8	0.502	0.517	0.510	0.335
0.9	0.371	0.394	0.383	0.208
0.45	0.255	0.241	0.248	0.073
0	0.172	0.178	0.175	?

Msds

{ "0": { "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL020642RA.pdf", "filename": "MSDS" } }