



Canine S100 calcium binding protein A12/Calgranulin-C(S100A12) ELISA Kit

Product Code	CSB-E17221c
Abbreviation	S100A12
Protein Biological Process 1	Immunity
Target Name	S100 calcium binding protein A12/Calgranulin-C(S100A12)
Uniprot No.	F1PMK3
Alias	CAAF1, CAGC, CGRP, ENRAGE, MRP6, p6, S100 calcium-binding protein A12 S100 calcium-binding protein A12 (calgranulin C) calgranulin C
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Protein Biological Process 3	Inflammatory response
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 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
Tag Info	quantitative
Protein Description	Sandwich
Description	<p>This Dog S100A12 ELISA Kit was designed for the quantitative measurement of Dog S100A12 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.</p>
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. This protein is proposed to be involved in specific calcium-</p>



dependent signal transduction pathways and its regulatory effect on cytoskeletal components may modulate various neutrophil activities.

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 canine S100A12 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

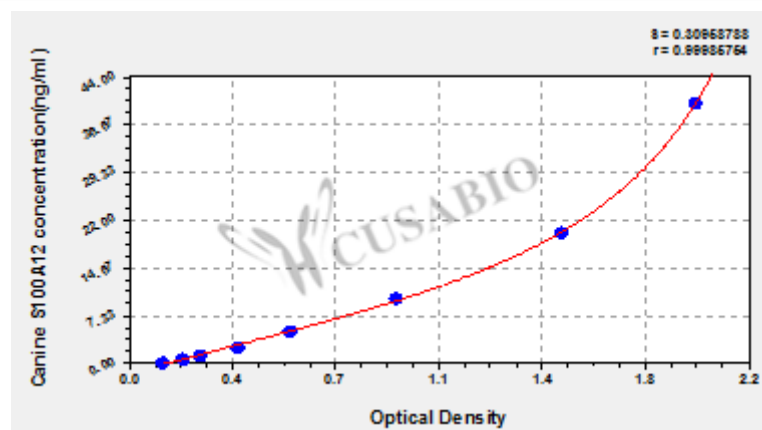
	Sample	Serum(n=4)
1:1	Average %	85
	Range %	81-89
1:2	Average %	96
	Range %	93-99
1:4	Average %	87
	Range %	82-91
1:8	Average %	97
	Range %	91-103

Recovery

The recovery of canine S100A12 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	85-93	
EDTA plasma (n=4)	97	90-104	

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
40	1.928	2.035	1.982	1.853
20	1.460	1.568	1.514	1.385
10	0.949	0.928	0.939	0.810
5	0.565	0.578	0.572	0.443
2.5	0.377	0.398	0.388	0.259
1.25	0.252	0.264	0.258	0.129
0.625	0.196	0.198	0.197	0.068
0	0.132	0.126	0.129	

Msds

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