Dog C-C motif chemokine 5(CCL5) ELISA kit

Product Code	CSB-EL004800DO
Protein Biological Process 2	chemokine
Abbreviation	CCL5
Protein Biological Process 1	Cytokine
Target Name	chemokine (C-C motif) ligand 5
Uniprot No.	Q8HYS0
Alias	D17S136E, MGC17164, RANTES, SCYA5, SISd, TCP228, OTTHUMP00000197106|SIS-delta|T-cell specific protein p288|beta-chemokine RANTES|regulated upon activation, normally T-expressed, and presumably secre
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.081 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	CCL5
Tag Info	quantitative
Protein Description	Sandwich
Description	This Dog CCL5 ELISA Kit was designed for the quantitative measurement of Dog CCL5 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.081 ng/mL.
Target Details	This gene is one of several CC cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in

immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine encoded by this gene functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor CCR5 and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor.

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 dog CCL5 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 %	97-110
1:2	Average %	101
	Range %	95-106
1:4	Average %	96
	Range %	87-101
1:8	Average %	102
	Range %	97-107

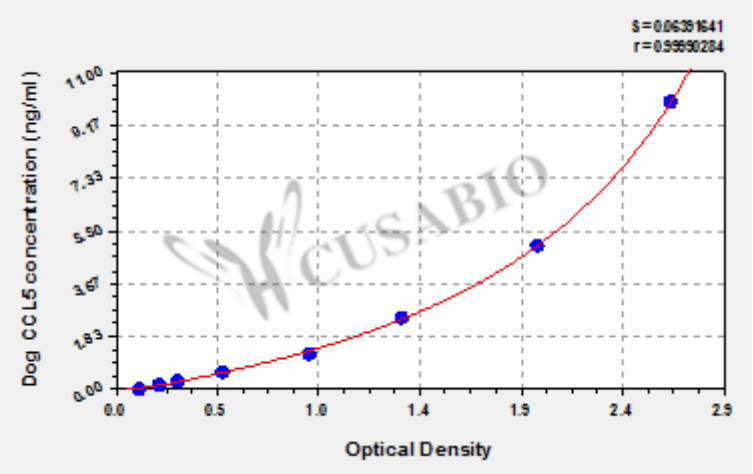
Recovery

The recovery of dog CCL5 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)	104	96-108
EDTA plasma (n=4)	99	91-104

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	CV
10	2.658	2.600	2.629	2.510	1.56%
5	1.985	2.016	2.001	1.882	1.10%
2.5	1.348	1.369	1.359	1.240	1.09%
1.25	0.919	0.927	0.923	0.804	0.61%
0.625	0.502	0.523	0.513	0.394	2.89%
0.313	0.294	0.314	0.304	0.185	4.65%
0.156	0.212	0.219	0.216	0.097	2.29%
0	0.117	0.121	0.119	?	2.38%

Msds

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