



Dog Interleukin 2,IL-2 ELISA Kit

Product Code	CSB-E11258c
Abbreviation	IL2
Protein Biological Process 1	Immunity
Target Name	interleukin 2
Uniprot No.	Q29416
Alias	IL-2, TCGF, lymphokine, T cell growth factor aldesleukin interleukin-2 involved in regulation of T-cell clonal expansion
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Protein Biological Process 3	Adaptive immunity
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Immunology
Gene Names	IL2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Dog IL2 ELISA Kit was designed for the quantitative measurement of Dog IL2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.

Target Details

This protein is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in



the immune response to antigenic stimuli.

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 IL-2 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 %	84
	Range %	81-89
1:2	Average %	95
	Range %	92-98
1:4	Average %	86
	Range %	83-90
1:8	Average %	97
	Range %	94-100

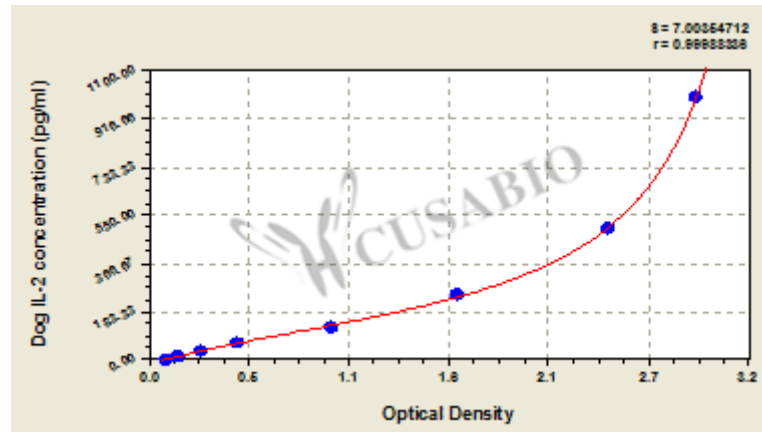
Recovery

The recovery of dog IL-2 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)	85	82-90
EDTA plasma (n=4)	105	101-109

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
1000	2.919	2.900	2.910	2.812
500	2.424	2.468	2.446	2.348
250	1.670	1.620	1.645	1.547
125	0.981	0.967	0.974	0.876
62.5	0.474	0.481	0.478	0.380
31.2	0.289	0.276	0.283	0.185
15.6	0.161	0.163	0.162	0.064
0	0.099	0.097	0.098	?

Msds

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