



Dog Interleukin-13(IL13) ELISA kit

Product Code	CSB-EL011590DO
Abbreviation	IL13
Target Name	interleukin 13
Uniprot No.	Q9N0W9
Alias	ALRH, BHR1, IL-13, MGC116786, MGC116788, MGC116789, P600,
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Sample Types	serum, plasma, tissue homogenates
Detection Range	12.5 pg/mL-800 pg/mL
Sensitivity	3.12 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	IL13
Tag Info	quantitative
Protein Description	Sandwich
Description	This Dog IL13 ELISA Kit was designed for the quantitative measurement of Dog IL13 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 12.5 pg/mL-800 pg/mL and the sensitivity is 3.12 pg/mL.
Target Details	This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4.
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 IL13 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)
	Average %	98
1:1	Range %	93-102
	Average %	92
1:2	Range %	88-96
	Average %	90
1:4	Range %	86-94
	Average %	87
1:8	Range %	82-91

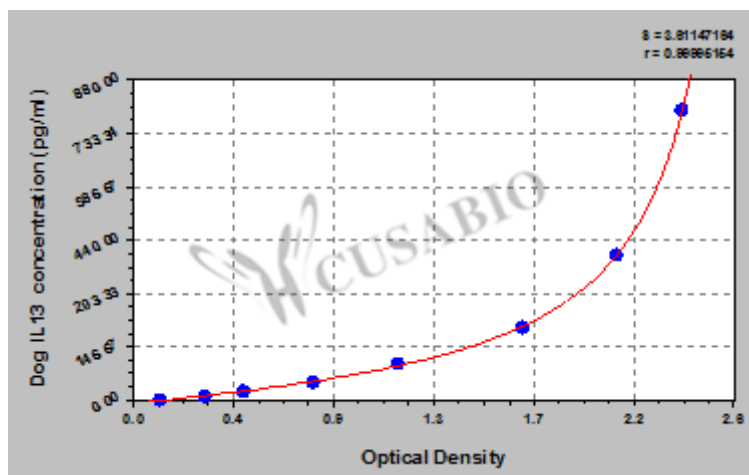
Recovery

The recovery of dog IL13 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	100-112
EDTA plasma (n=4)	85	80-90

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
800	2.315	2.467	2.391	2.263
400	2.049	2.158	2.104	1.976
200	1.720	1.680	1.700	1.572
100	1.193	1.124	1.159	1.031
50	0.782	0.796	0.789	0.661
25	0.507	0.475	0.491	0.363
12.5	0.328	0.309	0.319	0.191
0	0.124	0.131	0.128	?

Msds

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