



Canine Parathyroid hormone(PTH) ELISA Kit

Product Code	CSB-E17575c
Abbreviation	PTH
Target Name	Parathyroid hormone(PTH)
Uniprot No.	P52212
Alias	PTH1, parathormone parathyrin parathyroid hormone 1
Product Type	ELISA Kit
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
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	Signal Transduction
Gene Names	PTH
Tag Info	quantitative
Protein Description	Sandwich

Description
This Dog PTH ELISA Kit was designed for the quantitative measurement of Dog PTH 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 hormone secreted by parathyroid cells. This hormone elevates blood Ca²⁺ level by dissolving the salts in bone and preventing their renal excretion. Defects in this gene are a cause of familial isolated hypoparathyroidism (FIH).

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 PTH 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 %	96
	Range %	86-102
1:2	Average %	96
	Range %	90-103
1:4	Average %	89
	Range %	83-102
1:8	Average %	97
	Range %	92-105

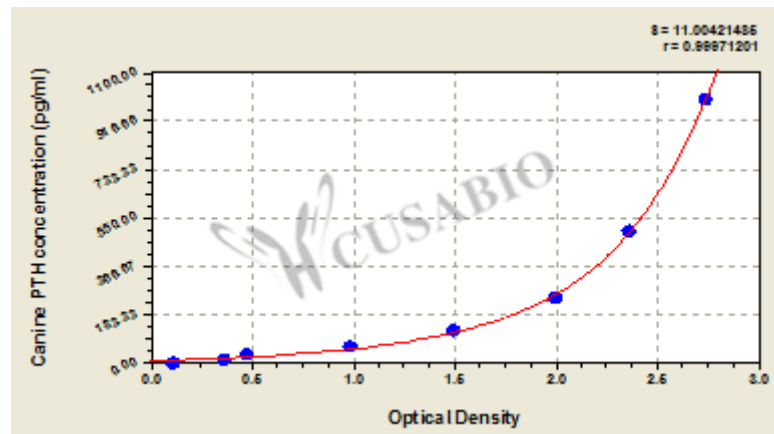
Recovery

The recovery of canine PTH 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)	94	82-105
EDTA plasma (n=4)	96	90-102

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	2.704	2.721	2.713	2.592
500	2.335	2.347	2.341	2.220
250	1.976	1.991	1.984	1.863
125	1.493	1.482	1.488	1.367
62.5	0.997	0.969	0.983	0.862
31.2	0.482	0.476	0.479	0.358
15.6	0.373	0.364	0.369	0.248
0	0.122	0.119	0.121	?

Msds

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