



Bovine Interleukin 12,IL-12 ELISA Kit

Product Code	CSB-E14010B
Abbreviation	IL12A
Target Name	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)
Uniprot No.	P54349
Alias	CLMF, IL-12A, NFSK, NKSF1, P35, IL-12, subunit p35 NF cell stimulatory factor chain 1 cytotoxic lymphocyte maturation factor 1, p35 interleukin 12, p35 interleukin 12A interleukin-12 alpha chain nat
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 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	IL12A
Tag Info	quantitative
Protein Description	Sandwich

Description

This Bovine IL12A ELISA Kit was designed for the quantitative measurement of Bovine IL12A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL .

Target Details

This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity.



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 bovine IL-12 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 %	86
	Range %	80-92
1:2	Average %	98
	Range %	91-102
1:4	Average %	94
	Range %	90-98
1:8	Average %	94
	Range %	86-99

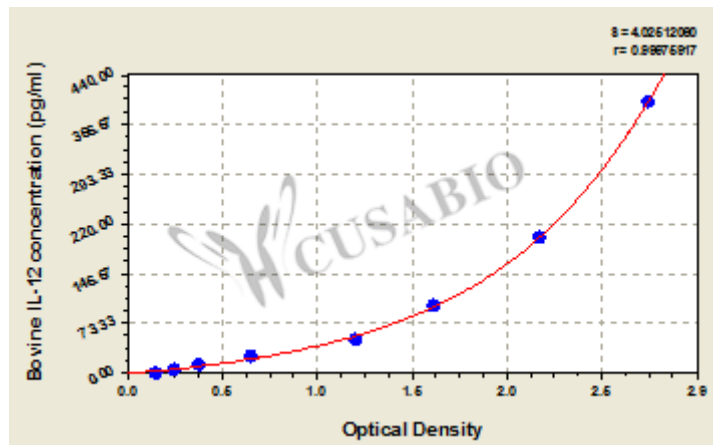
Recovery

The recovery of bovine IL-12 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	84-92
EDTA plasma (n=4)	97	95-101

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
400	2.758	2.628	2.693	2.531
200	2.184	2.084	2.134	1.972
100	1.612	1.562	1.587	1.425
50	1.203	1.173	1.188	1.026
25	0.652	0.642	0.647	0.485
12.5	0.384	0.374	0.379	0.217
6.25	0.258	0.253	0.256	0.094
0	0.163	0.161	0.162	?

**Msd**

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