



Sheep Interleukin 4(IL-4)ELISA Kit

Product Code	CSB-E15963Sh
Abbreviation	IL4
Protein Biological Process 1	Immunity
Target Name	interleukin 4
Uniprot No.	P30368
Alias	BCGF-1, BCGF1, BSF1, IL-4, MGC79402, B cell growth factor 1 B_cell stimulatory factor 1 lymphocyte stimulatory factor 1
Product Type	ELISA Kit
Immunogen Species	Ovis aries (Sheep)
Protein Biological Process 3	B-cell activation
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	IL4
Tag Info	quantitative
Protein Description	Sandwich

Description	This Sheep IL4 ELISA Kit was designed for the quantitative measurement of Sheep IL4 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 protein is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and



IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

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 sheep IL-4 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 %	92
	Range %	86-95
1:2	Average %	102
	Range %	97-105
1:4	Average %	95
	Range %	90-97
1:8	Average %	97
	Range %	93-100

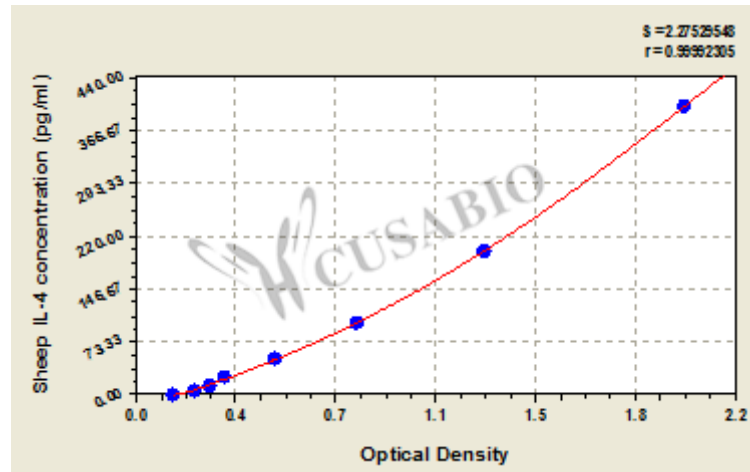
Recovery

The recovery of sheep IL-4 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	90-97
EDTA plasma (n=4)	96	90-99

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	2.084	1.958	2.021	1.869
200	1.300	1.276	1.288	1.136
100	0.828	0.817	0.823	0.671
50	0.518	0.529	0.524	0.372
25	0.333	0.343	0.338	0.186
12.5	0.281	0.290	0.286	0.134
6.25	0.231	0.224	0.228	0.076
0	0.154	0.150	0.152	?

Msds

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