Sheep Interleukin 1β,IL-1β ELISA Kit

Product Code	CSB-E10115Sh
Abbreviation	IL1B
Protein Biological Process 1	Immunity
Target Name	interleukin 1, beta
Uniprot No.	P21621
Alias	IL-1, IL1-BETA, IL1F2, catabolin|preinterleukin 1 beta|pro-interleukin-1-beta
Product Type	ELISA Kit
Immunogen Species	Ovis aries (Sheep)
Protein Biological Process 3	Inflammatory response
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	IL1B
Tag Info	quantitative
Protein Description	Sandwich
Description	This Sheep IL1B ELISA Kit was designed for the quantitative measurement of Sheep IL1B 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 member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain

hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.

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-1β 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 %	83-90
1:2	Average %	98
	Range %	92-102
1:4	Average %	100
	Range %	96-104
1:8	Average %	94
	Range %	90-96

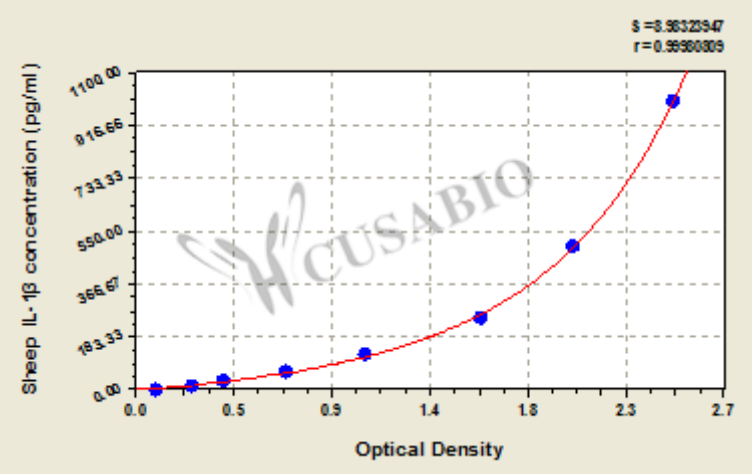
Recovery

The recovery of sheep IL-1β 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)	97	94-99

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
1000	2.487	2.456	2.472	2.371
500	2.031	2.000	2.016	1.915
250	1.614	1.568	1.591	1.490
125	1.105	1.023	1.064	0.963
62.5	0.703	0.689	0.696	0.595
31.2	0.421	0.402	0.412	0.311
15.6	0.275	0.262	0.269	0.168
0	0.103	0.099	0.101	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E10115Sh.pdf","filename":"MSDS"}}