



Pig Interleukin 1 α , IL-1 α ELISA kit

Product Code	CSB-E09725p
Abbreviation	IL1A
Protein Biological Process 1	Immunity
Target Name	interleukin 1, alpha
Uniprot No.	P18430
Alias	IL-1A, IL1, IL1-ALPHA, IL1F1, IL1A (IL1F1) OTTHUMP00000203692 hematopoietin-1 preinterleukin 1 alpha pro-interleukin-1-alpha
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Protein Biological Process 3	Inflammatory response
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	25 pg/mL-1600 pg/mL
Sensitivity	6.25 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	IL1A
Tag Info	quantitative
Protein Description	Sandwich
Description	This Pig IL1A ELISA Kit was designed for the quantitative measurement of Pig IL1A protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 25 pg/mL-1600 pg/mL and the sensitivity is 6.25 pg/mL.
Target Details	This protein is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other



interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer s disease.

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 pig IL-1 α 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 %	87
	Range %	82-93
1:2	Average %	104
	Range %	100-108
1:4	Average %	91
	Range %	85-97
1:8	Average %	87
	Range %	83-92

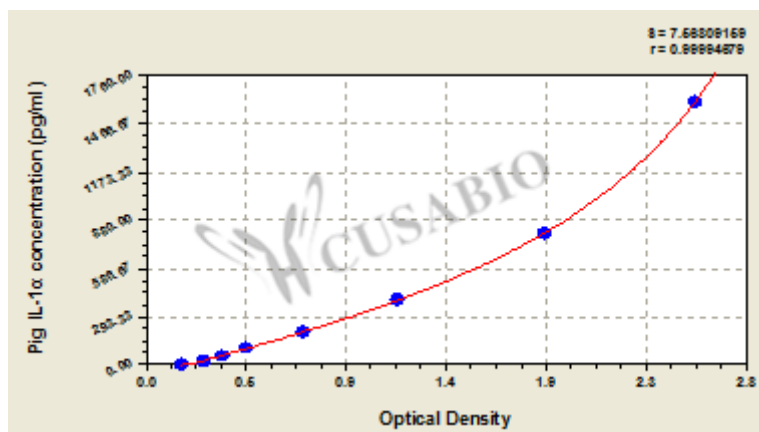
Recovery

The recovery of pig IL-1 α 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)	99	95-103
EDTA plasma (n=4)	95	90-100

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
1600	2.599	2.535	2.567	2.385
800	1.839	1.899	1.869	1.687
400	1.174	1.197	1.186	1.004
200	0.753	0.742	0.748	0.566
100	0.460	0.499	0.480	0.298
50	0.368	0.372	0.370	0.188
25	0.284	0.292	0.288	0.106
0	0.181	0.183	0.182	

Msds

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