





## Pig Interleukin $1\beta$ ,IL- $1\beta$ ELISA Kit

Product Code	CSB-E06782p
Abbreviation	IL1B
Protein Biological Process 1	Immunity
Target Name	interleukin 1, beta
Uniprot No.	P26889
Alias	IL-1, IL1-BETA, IL1F2, catabolin preinterleukin 1 beta pro-interleukin-1-beta
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Protein Biological Process 3	Inflammatory response
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
<b>Detection Range</b>	3.9 pg/mL-250 pg/mL
Sensitivity	0.975 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
<b>Detection Wavelength</b>	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
<b>Protein Description</b>	Sandwich
Description	This Pig IL1B ELISA Kit was designed for the quantitative measurement of Pig IL1B protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.9 pg/mL-250 pg/mL and the sensitivity is 0.975 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

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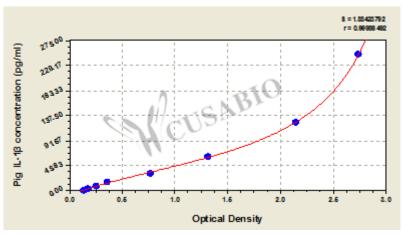


	hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2.						
Product Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (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 pig IL-1 $\beta$ 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)	Serum(n=4)		
	1:1	Average %		88			
		Range %		80-100			
	1:2	Average %		96			
		Range %		91-103			
	1:4	Average %		95			
		Range %		90-110			
	1:8	Average %		95			
		Range %		85-105			
Recovery	The recovery of pig IL-1 $\beta$ 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)		95		83-104		
	EDTA plasma (n=4)		98		90-108		
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

250 2.675 2.815 2.745 2.597 125 2.154 2.147 2.151 2.003 62.5 1.312 1.335 1.324 1.176 31.25 0.788 0.764 0.776 0.628 15.6 0.377 0.356 0.367 0.219 7.8 0.264 0.269 0.267 0.119 3.9 0.190 0.188 0.189 0.041 ? 0 0.153 0.143 0.148

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