



Pig interleukin 10,IL-10 ELISA Kit

Product Code	CSB-E06779p
Abbreviation	IL10
Target Name	interleukin 10
Uniprot No.	Q29055
Alias	CSIF, IL-10, IL10A, MGC126450, MGC126451, TGIF, cytokine synthesis inhibitory factor
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
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	IL10
Tag Info	quantitative
Protein Description	Sandwich

Description

This Pig IL10 ELISA Kit was designed for the quantitative measurement of Pig IL10 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 cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract.

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-10 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 %	90
	Range %	81-103
1:2	Average %	95
	Range %	90-105
1:4	Average %	95
	Range %	90-108
1:8	Average %	96
	Range %	82-112

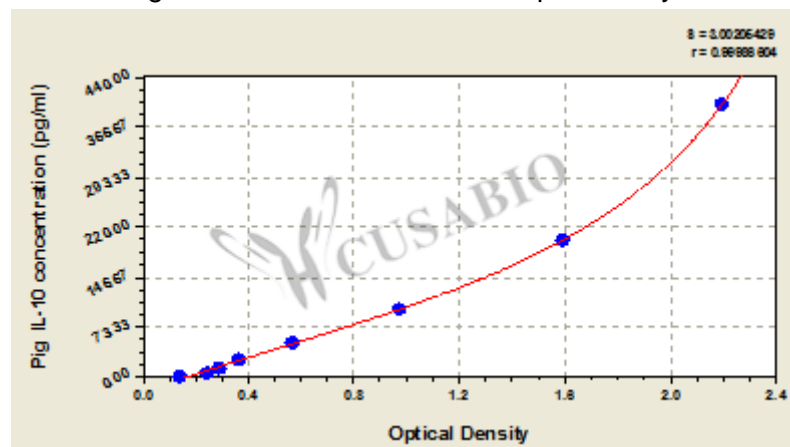
Recovery

The recovery of pig IL-10 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	85-109
EDTA plasma (n=4)	97	92-106

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	2.178	2.152	2.165	2.015
200	1.584	1.560	1.572	1.422
100	0.981	0.950	0.966	0.816
50	0.568	0.564	0.566	0.416
25	0.372	0.361	0.367	0.217
12.5	0.296	0.302	0.299	0.149
6.25	0.252	0.248	0.250	0.100
0	0.152	0.148	0.150	?

Msds

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