



Rabbit Interleukin 1,IL-1 ELISA Kit

Product Code	CSB-E06896Rb
Abbreviation	IL1A
Target Name	Interleukin 1,IL-1
Uniprot No.	P04822
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Oryctolagus cuniculus (Rabbit)
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	IL1A
Tag Info	quantitative
Protein Description	Sandwich

Description

The rabbit IL-1 ELISA kit is suitable for the quantitative determination of rabbit IL-1 in different sample types, including serum, plasma, and tissue homogenates. This assay employs the bi-antibody sandwich technique and enzyme-substrate chromogenic reaction to quantify antigen levels in the sample. The amount of synthesized colored products is positively related to the analyte of interest in the sample.

IL-1, also called IL-1 α or IL1A, is a ubiquitous and pivotal pro-inflammatory cytokine. IL-1/IL-1R1 signaling induces pro-inflammatory signaling cascades including NF- κ B, JNK, p38, AP-1, and MAPK pathways, resulting in the expression of myriad mediators, which orchestrate the development of an immune response. It exerts both beneficial, promoting innate immunity against invading microorganisms, and harmful roles in a variety of autoimmune and autoinflammatory diseases including cancer. In cancers, IL-1 affects the tumor microenvironment and promotes the initiation and progression of tumor cells.

Product Precision	Intra-assay Precision (Precision within an assay): CV%<8%
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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 rabbit IL-1 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 %	88
	Range %	84-96
1:2	Average %	92
	Range %	85-100
1:4	Average %	95
	Range %	89-101
1:8	Average %	93
	Range %	87-99

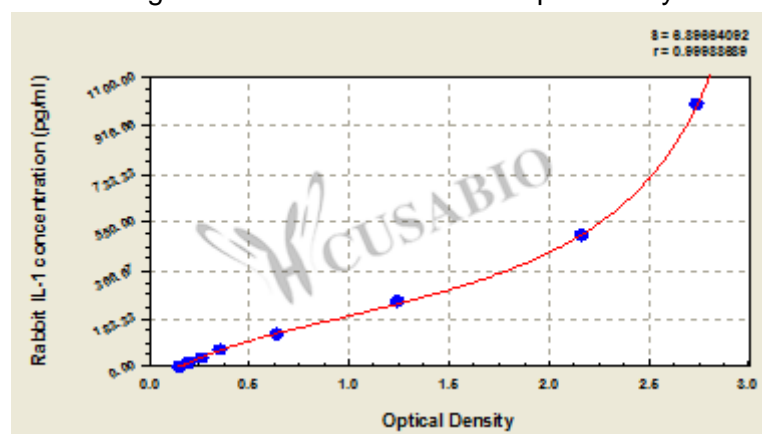
Recovery

The recovery of rabbit IL-1 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)	96	88-99
EDTA plasma (n=4)	92	84-102

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	2.772	2.641	2.707	2.547
500	2.216	2.068	2.142	1.982
250	1.286	1.186	1.236	1.076
125	0.652	0.634	0.643	0.483
62.5	0.370	0.355	0.363	0.203
31.2	0.282	0.264	0.273	0.113
15.6	0.199	0.212	0.206	0.046
0	0.164	0.156	0.160	?

Msds

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