Guinea pig interleukin 5,IL-5 ELISA Kit

Product Code	CSB-E12064Gp
Abbreviation	IL5
Target Name	interleukin 5 (colony-stimulating factor, eosinophil)
Uniprot No.	O08987
Alias	EDF, IL-5, TRF, B cell differentiation factor I|T-cell replacing factor|eosinophil differentiation factor|interleukin 5|interleukin-5
Product Type	ELISA Kit
Immunogen Species	Cavia porcellus (Guinea pig)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	IL5
Tag Info	quantitative
Protein Description	Sandwich
Description	This Guinea pig IL5 ELISA Kit was designed for the quantitative measurement of Guinea pig IL5 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	This protein is a cytokine that acts as a growth and differentiation factor for both B cells and eosinophils. This cytokine is a main regulator of eosinopoiesis, eosinophil maturation and activation. The elevated production of this cytokine is reported to be related to asthma or hypereosinophilic syndromes. The receptor of this cytokine is a heterodimer, whose beta subunit is shared with the receptors for interleukine 3 (IL3) and colony stimulating factor 2 (CSF2/GM-CSF). This gene, together with those for interleukin 4 (IL4), interleukin 13 (IL13), and CSF2, form a cytokine gene cluster on chromosome 5. This cytokine, IL4, and IL13 are found to be regulated coordinately by long-range regulatory elements spread over 120 kilobases on chromosome 5q31.
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 guinea pig IL-5 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 %	87-96
1:2	Average %	94
	Range %	89-99
1:4	Average %	103
	Range %	98-108
1:8	Average %	100
	Range %	91-105

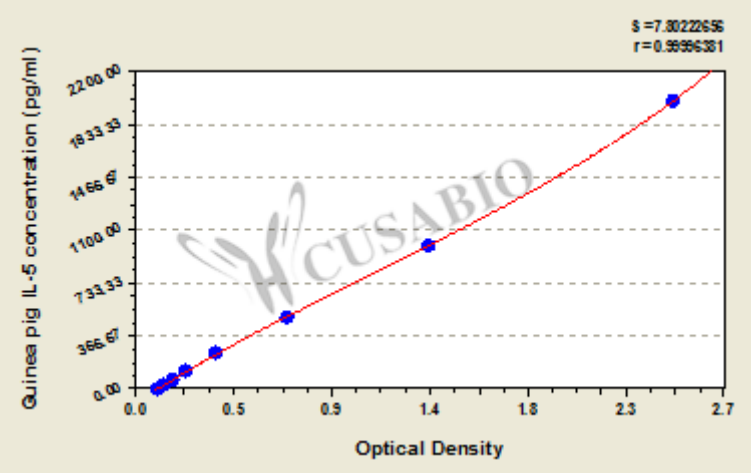
Recovery

The recovery of guinea pig IL-5 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	92-97
EDTA plasma (n=4)	92	84-98

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
2000	2.516	2.489	2.503	2.391
1000	1.384	1.356	1.370	1.258
500	0.733	0.698	0.716	0.604
250	0.384	0.375	0.380	0.268
125	0.253	0.234	0.244	0.132
62.5	0.187	0.181	0.184	0.072
31.25	0.142	0.133	0.138	0.026
0	0.113	0.111	0.112	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E12064Gp.pdf","filename":"MSDS"}}