Human Interleukin 9,IL-9 ELISA KIT

Product Code	CSB-E04642h
Abbreviation	IL9
Target Name	interleukin 9
Uniprot No.	P15248
Alias	HP40, IL-9, P40, T-cell growth factor p40|homolog of mouse T cell and mast cell growth factor 40|p40 T-cell and mast cell growth factor|p40 cytokine
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, 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	IL9
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human IL9 ELISA Kit was designed for the quantitative measurement of Human IL9 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	This protein is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness.
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 human IL-9 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 %	100
	Range %	97-103
1:2	Average %	99
	Range %	94-103
1:4	Average %	101
	Range %	98-106
1:8	Average %	97
	Range %	91-103

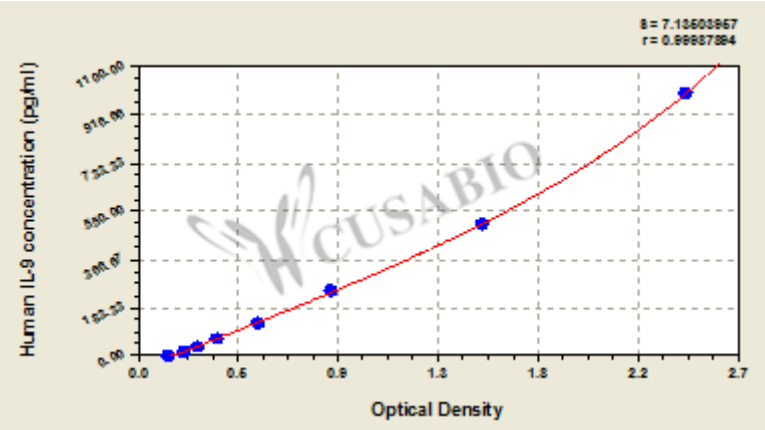
Recovery

The recovery of human IL-9 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)	83	80-86
EDTA plasma (n=4)	94	89-99

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	2.403	2.498	2.451	2.306
500	1.520	1.568	1.544	1.399
250	0.845	0.898	0.872	0.727
125	0.523	0.568	0.546	0.401
62.5	0.365	0.367	0.366	0.221
31.2	0.282	0.271	0.277	0.132
15.6	0.221	0.219	0.220	0.075
0	0.143	0.146	0.145	

Msds

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