





Human Interleukin 21,IL-21 ELISA Kit

Product Code	CSB-E11707h
Abbreviation	IL21
Target Name	interleukin 21
Uniprot No.	Q9HBE4
Alias	IL-21, Za11, interleukin-21 isoform
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 pg/mL-200 pg/mL
Sensitivity	0.78 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	IL21
Tag Info	quantitative
Protein Description	Sandwich
Description	

This human IL-21 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human IL-21 in multiple samples, including serum, plasma, or tissue homogenates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the IL-21 levels in the sample and is measured at 450 nm through a microplate reader.

IL-21 plays multiple biologic roles, including maintenance and function of CD8⁺ memory T cells and natural killer cells, as well as promoting the generation of Th17 cells in the mouse. IL-21 also promotes B-cell activation, differentiation, or death during humoral immune responses. IL-21 signals through IL-21R, activating the JAK1/3-STAT signaling pathway that initiates a gene transcription profile such as Gzma, Gzmb, II10, Eomes, and Rorgt. Furthermore, elevated IL-21 generation is characteristic of certain autoimmune diseases and is likely to contribute to autoantibody production as well as pathologic features of autoimmune disease. In contrast, IL-21 may function as a co-adjuvant to enhance antibody responses and thereby facilitate host defense to malignancies

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and infectious diseases.

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	concentrat	ions of human	IL-21 in va	rious matrices	spiked with high and diluted with the Sample dynamic range of the assay.	
Recovery	The recovery of human IL in various matrices was evidirected in the Sample Pre Sample Type Serum (n=5) EDTA plasma (n=4)		valuated. Separation s	Samples were	ighout the range of the assay diluted prior to assay as Range 94-102 85-109	

Typical

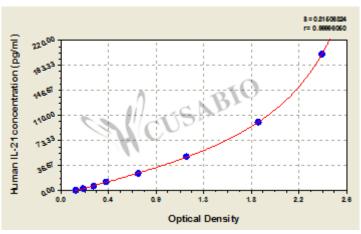
These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.











pg/ml OD1 OD2 Average Corrected

200	2.445 2.345 2.395	2.250	
100	1.864 1.764 1.814	1.669	
50	1.162 1.151 1.157	1.012	
25	0.723 0.713 0.718	0.573	
12.5	0.432 0.422 0.427	0.282	
6.25	0.315 0.305 0.310	0.165	
3.12	0.222 0.212 0.217	0.072	
0	0.145 0.144 0.145	?	

Msds

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