



Human T-cell surface glycoprotein CD3 zeta chain (CD247) ELISA kit

Product Code	CSB-EL004904HU
Abbreviation	CD247
Protein Biological Process 1	Immunity
Target Name	CD247 molecule
Uniprot No.	P20963
Alias	CD3-ZETA, CD3H, CD3Q, CD3Z, T3Z, TCRZ, CD247 antigen, zeta subunit CD3Z antigen, zeta polypeptide (TiT3 complex) T-cell antigen receptor complex, zeta subunit of CD3 T-cell receptor T3 zeta chain T-
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/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	CD247
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CD247 ELISA Kit was designed for the quantitative measurement of Human CD247 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
Target Details	This protein is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an



important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

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 CD247 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 %	89
	Range %	83-94
1:2	Average %	95
	Range %	90-99
1:4	Average %	106
	Range %	100-115
1:8	Average %	84
	Range %	80-88

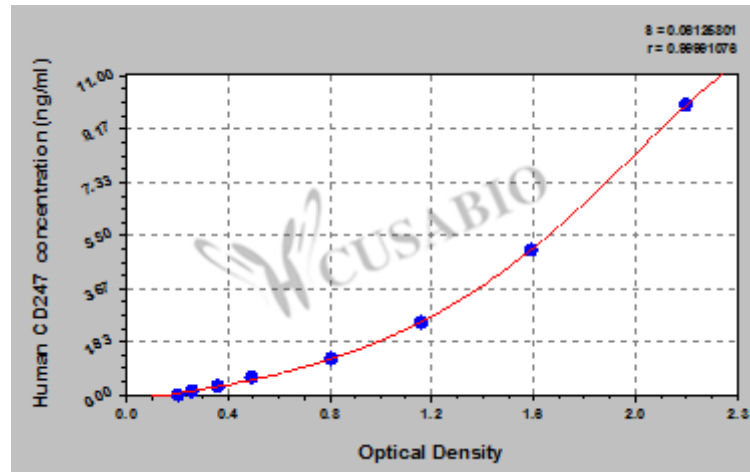
Recovery

The recovery of human CD247 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)	98	93-102
EDTA plasma (n=4)	93	89-97

Typical

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



ng/ml	OD1	OD2	Average	Corrected
10	2.168	2.131	2.150	1.946
5	1.570	1.536	1.553	1.349
2.5	1.144	1.126	1.135	0.931
1.25	0.775	0.815	0.795	0.591
0.625	0.482	0.498	0.490	0.286
0.312	0.353	0.364	0.359	0.155
0.156	0.256	0.265	0.261	0.057
0	0.199	0.209	0.204	

Msds

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