Human Cluster of differentiation 8,CD8 ELISA Kit

Product Code	CSB-E12707h
Abbreviation	CD8A
Protein Biological Process 1	Immunity
Target Name	CD8a molecule
Uniprot No.	P01732
Alias	CD8, Leu2, MAL, p32, CD8 antigen alpha polypeptide|CD8 antigen, alpha polypeptide (p32)|Leu2 T-lymphocyte antigen|OKT8 T-cell antigen|OTTHUMP00000203721|T cell co-receptor|T-cell antigen Leu2|T-cell
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Adaptive immunity
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	62.5 U/mL-4000 U/mL
Sensitivity	15.6 U/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	CD8A
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CD8A ELISA Kit was designed for the quantitative measurement of Human CD8A protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 U/mL-4000 U/mL and the sensitivity is 15.6 U/mL.
Target Details	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen acts as a corepressor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The coreceptor functions as either a homodimer composed of two alpha chains, or as a heterodimer composed of

one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 alpha chain isoforms. Multiple transcript variants encoding different 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 CD8 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 %	94
	Range %	86-98
1:2	Average %	99
	Range %	88-104
1:4	Average %	97
	Range %	89-100
1:8	Average %	105
	Range %	94-109

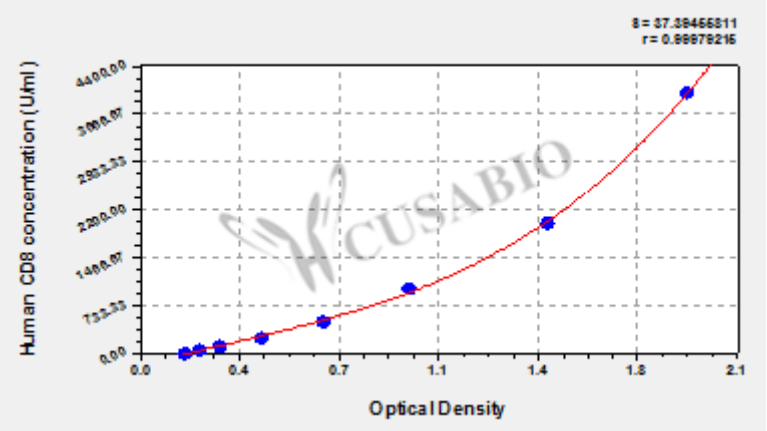
Recovery

The recovery of human CD8 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)	100	88-104
EDTA plasma (n=4)	97	88-100

Typical

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



U/ml	OD1	OD2	Average	Corrected
4000	1.979	1.941	1.960	1.783
2000	1.471	1.455	1.463	1.286
1000	0.961	0.989	0.975	0.798
500	0.647	0.685	0.666	0.489
250	0.447	0.454	0.451	0.274
125	0.291	0.308	0.300	0.123
62.5	0.227	0.232	0.230	0.053
0	0.179	0.175	0.177	?

Msds

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