



Mouse cytotoxic T lymphocyte associated antigen 4,CTLA-4 ELISA Kit

Product Code	CSB-E13637m
Abbreviation	CTLA4
Protein Biological Process 1	Immunity
Target Name	cytotoxic T-lymphocyte-associated protein 4
Uniprot No.	P09793
Alias	CD, CD152, CELIAC3, CTLA-4, GRD4, GSE, ICOS, IDDM12, celiac disease 3 cytotoxic T-lymphocyte antigen 4 cytotoxic T-lymphocyte-associated antigen 4 cytotoxic T-lymphocyte-associated serine esterase-4
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Adaptive immunity
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Ctla4
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse CTLA4 ELISA Kit was designed for the quantitative measurement of Mouse CTLA4 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate



transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune 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

To assess the linearity of the assay, samples were spiked with high concentrations of mouse CTLA-4 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)
	Average %	97
1:1	Range %	95-99
	Average %	102
1:2	Range %	97-106
	Average %	86
1:4	Range %	83-89
	Average %	94
1:8	Range %	90-98

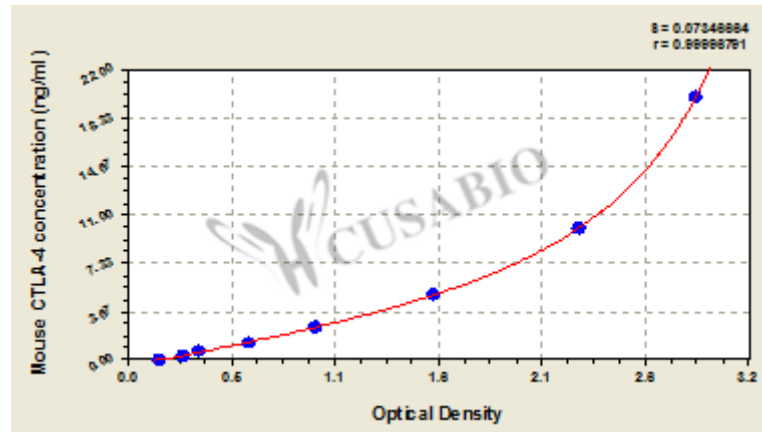
Recovery

The recovery of mouse CTLA-4 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)	102	96-108
EDTA plasma (n=4)	87	83-90

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
20	2.934	2.868	2.901	2.725
10	2.312	2.301	2.307	2.131
5	1.537	1.602	1.570	1.394
2.5	0.951	0.987	0.969	0.793
1.25	0.637	0.629	0.633	0.457
0.625	0.386	0.374	0.380	0.204
0.312	0.298	0.300	0.299	0.123
0	0.175	0.177	0.176	?

Msds

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