



Human C-type lectin domain family 7 member A(CLEC7A) ELISA kit

Product Code	CSB-EL005541HU
Abbreviation	CLEC7A
Protein Biological Process 1	Immunity
Target Name	C-type lectin domain family 7, member A
Uniprot No.	Q9BXN2
Alias	BGR, CANDF4, CLECSF12, DECTIN1, C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 12 beta-glucan receptor dectin-1 dendritic cell-associated C-type lectin 1 dend
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Immunity
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 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	CLEC7A
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CLEC7A ELISA Kit was designed for the quantitative measurement of Human CLEC7A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL.
Target Details	This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. The encoded glycoprotein is a small type II membrane receptor with an extracellular C-type lectin-like domain fold and a cytoplasmic



domain with an immunoreceptor tyrosine-based activation motif. It functions as a pattern-recognition receptor that recognizes a variety of beta-1,3-linked and beta-1,6-linked glucans from fungi and plants, and in this way plays a role in innate immune response. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region.

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 CLEC7A 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 %	87
	Range %	84-95
1:2	Average %	90
	Range %	85-95
1:4	Average %	97
	Range %	92-101
1:8	Average %	93
	Range %	89-99

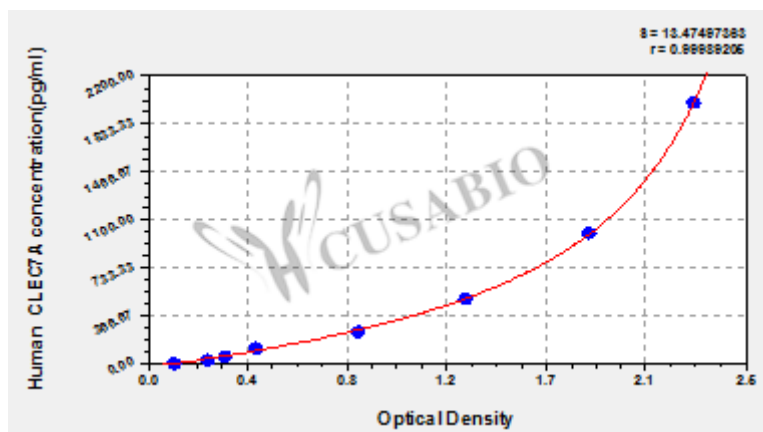
Recovery

The recovery of human CLEC7A 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	96-104
EDTA plasma (n=4)	96	90-102

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
2000	2.246	2.297	2.272	2.154
1000	1.821	1.862	1.842	1.724
500	1.315	1.336	1.326	1.208
250	0.887	0.874	0.881	0.763
125	0.453	0.463	0.458	0.340
62.5	0.322	0.342	0.332	0.214
31.25	0.262	0.254	0.258	0.140
0	0.119	0.117	0.118	?

Msds

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