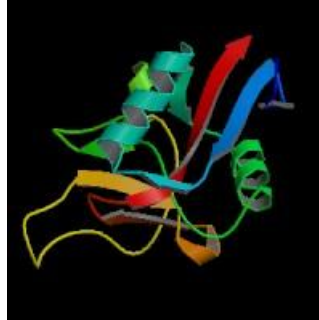




ELISA Kit



Human C-type lectin domain family 10 member A ELISA Kit , CLEC10A ELISA Kit

This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. The encoded type 2 transmembrane protein may function as a cell surface antigen. Two transcript variants encoding distinct isoforms have been identified for this gene. **[provided by RefSeq]**

- [UniProtQ8IUN9](#)
- [BioWWWCLEC10A](#)
- [HGNC16916](#)
- [MGI96975](#)
- [CUSABIO](#)CSB-EL005514HU

Product Name:	Human C-type lectin domain family 10 member A ELISA Kit , CLEC10A ELISA Kit
Product Type:	ELISA Kit
Code:	CSB-EL005514HU
Alias:	CD301, CLECSF13, CLECSF14, HML, HML2, C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 13 (macrophage-derived) C-type (calcium dependent, carbohydrate-recogniti
Size:	96T
Species:	Human
Target Name:	C-type lectin domain family 10, member A
Abbreviation:	CLEC10A
Protein Biological Process 1:	Immunity
Protein Biological Process 3:	Adaptive immunity

Detect Range:	Request Information
Sensitivity:	Request Information
Assay Time:	1-5h
Sample Volume:	50-100ul
Detection wavelengt:	450 nm
Download:	Protocol may be improved. Please feel free to contact CUSABIO product specialist to obtain the latest version.
Principle:	This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CLEC10A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CLEC10A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CLEC10A is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CLEC10A bound in the initial step. The color development is stopped and the intensity of the color is measured.
Specificity:	This assay has high sensitivity and excellent specificity for detection of CLEC10A. No significant cross-reactivity or interference between CLEC10A and analogues was observed.
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.
Sample collection and storage:	Serum: Use a serum separator tube (SST) and allow samples to clot for two hours at room temperature or overnight at 4°C before centrifugation for 15 minutes at 1000 ×g. Remove serum and assay immediately or aliquot and store samples at -20°C or -80°C. Avoid repeated freeze-thaw cycles. Plasma: Collect plasma using EDTA, or heparin as an anticoagulant. Centrifuge for 15 minutes at 1000 ×g at 2-8°C within 30 minutes of collection. Assay immediately or aliquot and store samples at -20°C or -80°C. Avoid repeated freeze-thaw cycles.
Assay procedure:	Bring all reagents and samples to room temperature before use. Centrifuge the sample again after thawing before the assay. It is recommended that all samples and standards be assayed in duplicate. 1. Prepare all reagents, working standards, and samples as directed in the previous sections. 2. Refer to the Assay Layout Sheet to determine the number of wells to be used and put any remaining wells and the desiccant back into the pouch and seal the ziploc, store unused wells at 4°C. 3. Add 100µl of standard and sample per well. Cover with the adhesive strip provided. Incubate for 2 hours at 37°C. A plate layout is provided to record standards and samples assayed. 4. Remove the liquid of each well, don't wash.

5. Add 100µl of Biotin-antibody (1x) to each well. Cover with a new adhesive strip. Incubate for 1 hour at 37°C. (Biotin-antibody (1x) may appear cloudy. Warm up to room temperature and mix gently until solution appears uniform.)
6. Aspirate each well and wash, repeating the process two times for a total of three washes. Wash by filling each well with Wash Buffer (200µl) using a squirt bottle, multi-channel pipette, manifold dispenser, or autowasher, and let it stand for 2 minutes, complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining wash Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.
7. Add 100µl of HRP-avidin (1x) to each well. Cover the microtiter plate with a new adhesive strip. Incubate for 1 hour at 37°C.
8. Repeat the aspiration/wash process for five times as in step 6.
9. Add 90µl of TMB Substrate to each well. Incubate for 15-30 minutes at 37°C. Protect from light.
10. Add 50µl of Stop Solution to each well, gently tap the plate to ensure thorough mixing.
11. Determine the optical density of each well within 5 minutes, using a microplate reader set to 450 nm. If wavelength correction is available, set to 540 nm or 570 nm. Subtract readings at 540 nm or 570 nm from the readings at 450 nm. This subtraction will correct for optical imperfections in the plate. Readings made directly at 450 nm without correction may be higher and less accurate.

Calculation of results:

Using the professional soft "Curve Expert 1.3" to make a standard curve is recommended, which can be downloaded from our web.

Average the duplicate readings for each standard and sample and subtract the average zero standard optical density.

Create a standard curve by reducing the data using computer software capable of generating a four parameter logistic (4-PL) curve-fit. As an alternative, construct a standard curve by plotting the mean absorbance for each standard on the x-axis against the concentration on the y-axis and draw a best fit curve through the points on the graph. The data may be linearized by plotting the log of the CLEC10A concentrations versus the log of the O.D. and the best fit line can be determined by regression analysis. This procedure will produce an adequate but less precise fit of the data.

If samples have been diluted, the concentration read from the standard curve must be multiplied by the dilution factor.