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User's Manual

Leukocyte Cell Derived Chemotaxin 2 (LECT2) ELISA Kit (Human)

REF **DEIA-CL005**

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This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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PRODUCT INFORMATION

Intended Use

The Human Leukocyte Cell Derived Chemotaxin 2 (LECT2) ELISA Kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of LECT2 in human serum, plasma and other biological fluids.

Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Principles of Testing

The microtiter plate provided in this kit has been pre-coated with an antibody specific to LECT2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to LECT2. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain LECT2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulfuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of LECT2 in the sample is then determined by comparing the O.D. of the sample to the standard curve.

Reagents And Materials Provided

*A: Microtiter Plate, 1x96 wells, Pre-coated; ready to use

*B: Standard, 2x1vial

C: Standard Diluent, 1x20ml

*D: Detection Reagent A, 1x120µL

*E: Detection Reagent B, 1x120µL

F: Assay Diluent A, 1x12ml

G: Assay Diluent B, 1x12ml

H: TMB Substrate, 1x9ml

K: Stop Solution, 1x6ml

L: Wash Buffer, 30X, 1x20ml

Materials Required But Not Supplied

1. Microplate reader with 450 ± 10nm filter.
2. Precision single or multi-channel pipettes and disposable tips.
3. Eppendorf Tubes for diluting samples.
4. Deionized or distilled water.
5. Absorbent paper for blotting the microtiter plate.

6. Container for Wash Solution.

Storage

Store the unopened product at 2 - 8 °C. Do not use past expiration date.

Assay Procedure

1. Prepare all reagents, samples and standards.
2. Add 100µL standard or sample to each well. Incubate 2 hours at 37°C.
3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37°C.
4. Aspirate and wash 3 times.
5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37°C.
6. Aspirate and wash 5 times.
7. Add 90µL TMB Substrate. Incubate 15-25 minutes at 37°C.
8. Add 50µL Stop Solution. Read at 450nm immediately.

Precision

Intra-assay: CV<10%

Inter-assay: CV<12%

Detection Range

0.469-30 ng/ml

Sensitivity

<0.281 ng/ml