

Human IL-1 β ELISA development kit

Product Code: 3415-1A-6

CONTENTS, development kit for 6 plates:

Vial 1 (green top)

Monoclonal antibody IL1 β -I (150 μ l)

Concentration: 1 mg/ml

Vial 2 (blue top)

Biotinylated monoclonal antibody IL1 β -II (80 μ l)

Concentration: 1 mg/ml

Vial 3 (white top)

Streptavidin-Alkaline Phosphatase (80 μ l)

Vial 4

Recombinant human IL-1 β standard (1 μ g)

To ensure total recovery of stated quantity, vials have been overfilled.

STORAGE:

Shipped at ambient temperature. On arrival box 1 should be stored refrigerated at 4-8°C and box 2 should be stored frozen at -20°C.

General

Intended use: For quantitative determination of native and recombinant human IL-1 β in solution, e.g. cell culture supernatant.

Serum/plasma samples: Please note that cytokine determinations in serum/plasma require the use of ELISA diluent (product code: 3652-D2) for dilution of samples, standard and detection antibody. The diluent prevents false positive read-outs which may be caused by interference of heterophilic antibodies found in plasma and serum. The ELISA diluent has been validated using serum/plasma from normal healthy human blood donors. Please note that heterophilic antibody interference in samples from human subjects with various diseases or other conditions has not been assessed. Please contact Mabtech for further information.

Reagents: Antibodies are supplied in sterile-filtered (0.2 μ m) PBS with sodium azide (0.02%). Streptavidin-ALP is supplied in 0.1 M Tris buffer with 0.002% Kathon CG.

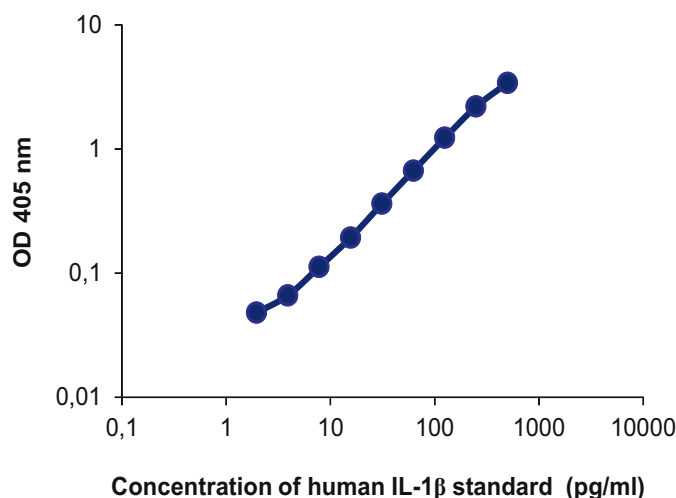
Standard range: 3-300 pg/ml

Limit of detection: 1.5 pg/ml

Intra-assay variation: < 4%

Standard calibration: 1 ng of supplied standard equals 59 U of 86/680 NIBSC*-standard according to repeated calibrations. Calibration is batch-specific.

*National Institute of Biological Standards and Control, UK.



Guidelines for Human IL-1 β ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb IL1 β -I, diluted to 2 μ g/ml in PBS, pH 7.4, by adding 100 μ l/well. Incubate overnight at 4-8°C.
- Day 2**
2. Wash twice with PBS (200 μ l/well).
 3. Block plate by adding 200 μ l/well of PBS with 0.05% Tween 20 containing 0.1% BSA (incubation buffer). Incubate for 1 hour at room temperature.
 4. Wash five times with PBS containing 0.05% Tween20
 5. Prepare hIL-1 β standard by reconstituting contents of vial 4 in 1 ml PBS to a concentration of 1 μ g/ml. Leave at room temperature for 15 minutes and then vortex the tube. The stock solution should be used immediately or stored in aliquots at -20°C for future use. We recommend the aliquots not be refrozen after initial use. For the test, prepare dilutions of the stock using the standard range as a guideline.
 6. Add 100 μ l/well of samples or standards diluted in incubation buffer or ELISA diluent for serum/plasma samples and incubate for 2 hours at room temperature.
 7. Wash as in step 4.
 8. Add 100 μ l/well of mAb IL1 β -II-biotin at 1 μ g/ml in incubation buffer or ELISA diluent for serum/plasma samples. Incubate for 1 hour at room temperature.
 9. Wash as in step 4.
 10. Add 100 μ l/well of Streptavidin-ALP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature.
 11. Wash as in step 4.
 12. Add 100 μ l/well of appropriate substrate solution e.g. p-nitrophenyl-phosphate (pNPP).
 13. Measure the optical density (405 nm for pNPP) in an ELISA reader after suitable developing time.

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