ELISA for Human MIP-1β

Product Code: 3495-1H-6

CONTENTS, development kit for 6 plates:

Vial 1 (yellow top)
Monoclonal antibody MIP1β-I (80 µl)
Concentration: 1 mg/ml

Vial 2 (blue top)
Biotinylated monoclonal antibody MIP1β-II (80 µl)
Concentration: 0.5 mg/ml

Vial 3 (white top)
Streptavidin-Horseradish Peroxidase (80 µl)

Vial 4
Recombinant human MIP-1β standard

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

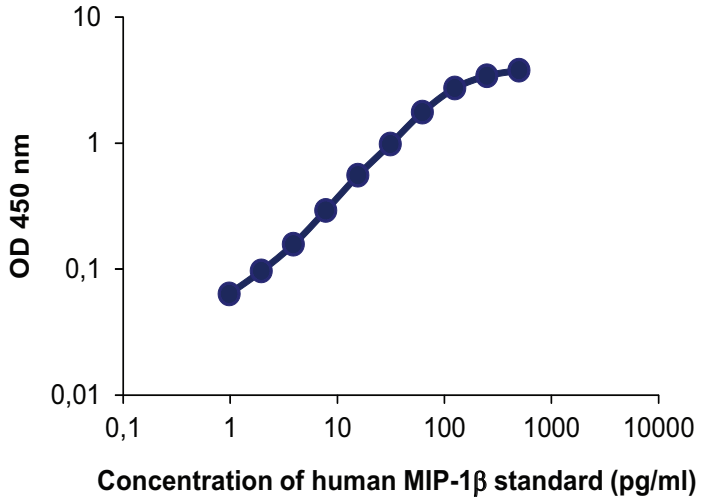
Intended use: For quantitative determination of native and recombinant human MIP-1β in solution, e.g. cell culture supernatant.

Serum/plasma samples: Please note that determination of analyte in human serum/plasma samples by this kit requires the use of Assay buffer (product code: 3652-J2) for dilution of samples, standard and detection antibody. The buffer prevents false positive read-outs which may be caused by interference of heterophilic antibodies commonly found in human plasma and serum. The Assay buffer 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 µm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

Standard range: 2-200 pg/ml.

Standard calibration: No international standard exists for calibration



Guidelines for Human MIP-1β ELISA

Day 1 1. Coat a high protein binding ELISA plate with mAb MIP1β-I, diluted to 1 µg/ml in PBS, pH 7.4, by adding 100 µl/well. Incubate overnight at 4-8°C.

Day 2 2. Wash twice with PBS (200 µl/well).

3. Block plate by adding 200 µl/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% Tween.

5. Prepare MIP-1β standard by reconstituting contents of vial 4 in 100 µl pure water. Add 900 µl PBS with 0.1% BSA to make up a stock solution of 500 ng/ml. 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 µl/well of samples or standards diluted in incubation buffer or Assay buffer for serum/plasma samples and incubate for 2 hours at room temperature.

7. Wash as in step 4.

8. Add 100 µl/well of mAb MIP1β-II-biotin diluted to 0.5 µg/ml in incubation buffer or Assay buffer for serum/plasma samples. Incubate for 1 hour at room temperature.

9. Wash as in step 4.

10. Add 100 µl/well of Streptavidin-HRP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature. **Please note that sodium azide used in buffers will inhibit HRP activity.**

11. Wash as in step 4.

12. Add 100 µl/well of appropriate substrate solution.

13. Measure the optical density in an ELISA reader after suitable developing time. If required stop the reaction first.

NOTE; for research use only.
MABTECH shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages therefrom.

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