

# Human IL-23 ELISA development kit

Product Code: 3457-1H-6

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CONTENTS, development kit for 6 plates:

**Vial 1 (red top)**

Monoclonal antibodies MT86/221 (300  $\mu$ l)

Concentration: 0.5 mg/ml

**Vial 2 (green top)**

Biotinylated monoclonal antibody MT155 (150  $\mu$ l)

Concentration: 0.5 mg/ml

**Vial 3 (white top)**

Streptavidin-Horseradish Peroxidase (80  $\mu$ l)

**Vial 4**

Recombinant human IL-23 standard (0,5  $\mu$ 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. Box 2 should be stored frozen at -20°C.

# General

**Intended use:** For quantitative determination of native and recombinant human IL-23 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 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 commonly found in human 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.

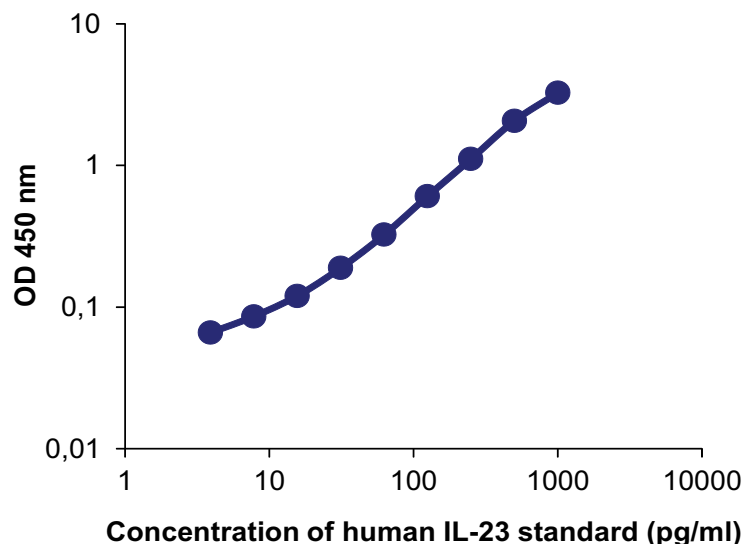
**Reagents:** Antibodies are supplied in sterile-filtered (0.2  $\mu\text{m}$ ) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.002% Kathon CG.

**Standard range:** 7-700 pg/ml

**Limit of detection:** 4 pg/ml

**Standard calibration:** 1 ng of supplied standard equals 8 U of 95/544 NIBSC\*-standard according to repeated calibrations. Calibration is batch-specific. The IL-23 standard was produced in a HumaXpress cell expression system (Humankine).

\*National Institute of Biological Standards and Control, UK.



# Guidelines for Human IL-23 ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAbs MT86/221, diluted to 2  $\mu\text{g/ml}$  in PBS, pH 7.4, by adding 100  $\mu\text{l/well}$ . Incubate overnight at 4-8°C.
- Day 2**
2. Wash twice with PBS (200  $\mu\text{l/well}$ ).
  3. Block plate by adding 200  $\mu\text{l/well}$  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% Tween.
  5. Prepare hIL-23 standard by reconstituting contents of vial 4 in 500  $\mu\text{l}$  PBS with 0.1% BSA to a concentration of 1  $\mu\text{g/ml}$ . 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  $\mu\text{l/well}$  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  $\mu\text{l/well}$  of mAb MT155-biotin at 1  $\mu\text{g/ml}$  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  $\mu\text{l/well}$  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  $\mu\text{l/well}$  of appropriate substrate solution e.g. TMB, available from Mabtech product code 3652-F10.
  13. Measure the optical density in an ELISA reader after suitable developing time. If required stop the reaction first.

Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.



**The products are for research use only.**

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