

Rat IL-22

ELISA development kit

Product Code: 3275-1H-20

CONTENTS, development kit for 20 plates:

Vial 1 (yellow top)

Monoclonal antibody MT231 (2 x 1000 μ l)

Concentration: 0.5 mg/ml

Vial 2 (green top)

Biotinylated monoclonal antibody MT230 (250 μ l)

Concentration: 0.5 mg/ml

Vial 3 (white top)

Streptavidin-Horseradish Peroxidase (250 μ l)

Vial 4

Recombinant mouse IL-22 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

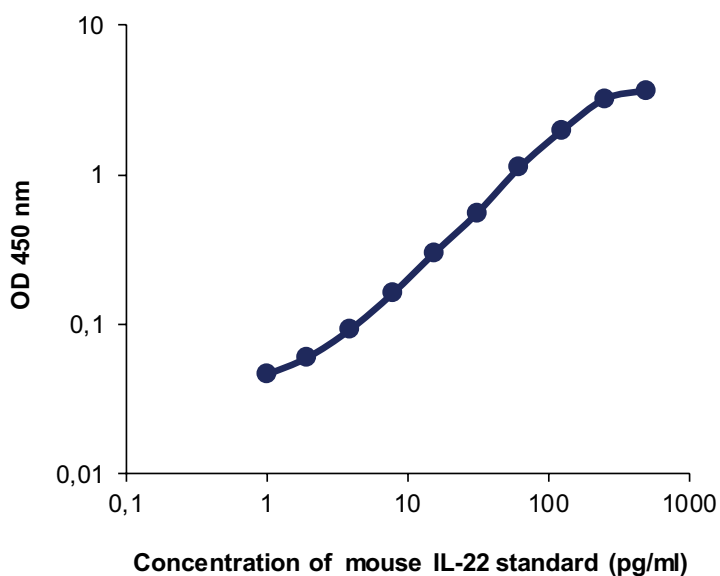
Intended use: For quantitative determination of native rat IL-22 in solution, e.g. cell culture supernatant and serum/plasma samples.

Specificity: The monoclonal antibodies in this kit react with mouse IL-22 and cross-react with rat IL-22. The ELISA standard supplied is recombinant mouse IL-22.

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 0.002% Kathon CG.

Standard range: 3-300 pg/ml

Standard calibration: No international standard exists for calibration.



Guidelines for Rat IL-22 ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb MT231, diluted to 4 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 mouse IL-22 standard by reconstituting contents of vial 4 in 1 ml PBS to a concentration of 0.5 µg/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 µl/well of samples or standards diluted in incubation buffer and incubate for 2 hours at room temperature.
 7. Wash as in step 4.
 8. Add 100 µl/well of mAb MT230-biotin at 0.5 µg/ml in incubation buffer. 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 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.



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