ELISA for Monkey IL-2

Product Code: 3440M-1H-20

CONTENTS, development kit for 20 plates:

Vial 1 (red top)
Monoclonal antibody IL2M-I/249, a combination of two different antibodies (1 ml)
Concentration: 0.5 mg/ml

Vial 2 (yellow top)
Biotinylated monoclonal antibody IL2-II (500 µl)
Concentration: 0.5 mg/ml

Vial 3 (white top)
Streptavidin-Horseradish Peroxidase (250 µl)

Vial 4
Recombinant human IL-2 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: This assay is based on the use of a combination of two coating antibodies, IL2M-I and 249.

For quantitative determination of native and recombinant monkey IL-2 in solution, e.g. cell culture supernatant.

Serum/plasma samples: Please note that determination of analyte in 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 serum/plasma and possibly also in monkey serum/plasma.

Specificity: Native and recombinant human IL-2 and native IL-2 from rhesus and cynomolgus macaques. Inquire for reactivities with other monkey species.

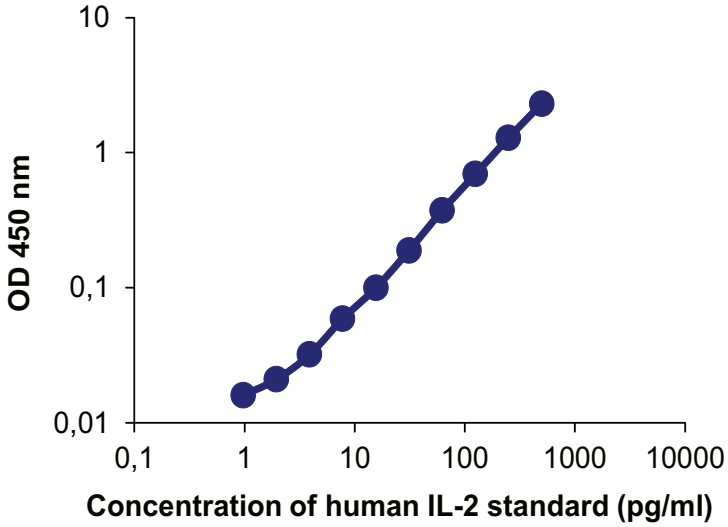
Reagents: Antibodies are supplied in sterile-filtered (0.2 µm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

Standard range: 3-300 pg/ml

Limit of detection: 2 pg/ml

Standard calibration: 1 ng of supplied human standard equals 20 U of 86/504 NIBSC*-standard according to repeated calibrations. Calibration is batch-specific.

*National Institute of Biological Standards and Controls, UK.



Guidelines for Monkey IL-2 ELISA

Day 1 1. Coat a high protein binding ELISA plate with mAb IL2M-I/249, diluted to 2 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 (PBS-Tween) 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-2 standard by reconstituting contents of vial 4 in 1 ml PBS to a concentration of 1 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 or ELISA diluent 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 IL2-II-biotin at 1 µg/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 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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