

ELISA for Monkey IL-2

Product Code: 3440M-1A-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-Alkaline Phosphatase (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.

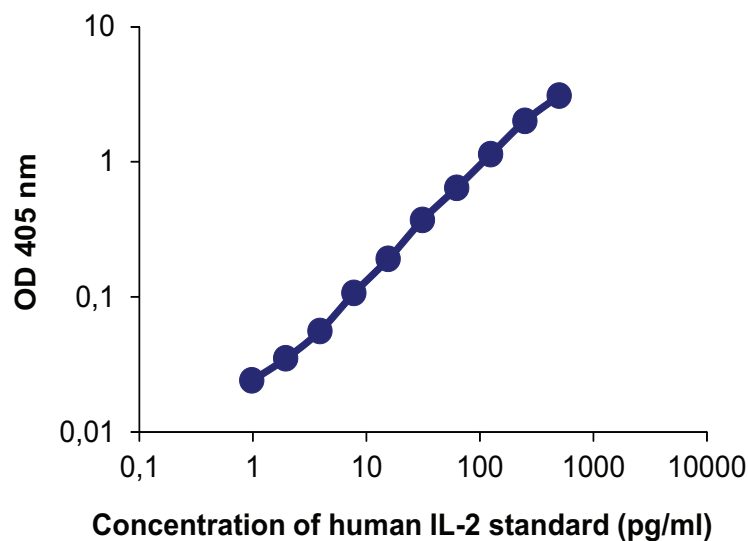
Reagents: Antibodies are supplied in sterile-filtered (0.2 μm) PBS with sodium azide (0.02%). Streptavidin-ALP is supplied in 0.1 M Tris buffer with 0.15% Kathon CG.

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 Control, 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 $\mu\text{g}/\text{ml}$ in PBS, pH 7.4, by adding 100 $\mu\text{l}/\text{well}$. Incubate overnight at 4-8°C.
- Day 2**
2. Wash twice with PBS (200 $\mu\text{l}/\text{well}$).
 3. Block plate by adding 200 $\mu\text{l}/\text{well}$ 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 $\mu\text{g}/\text{ml}$. 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 $\mu\text{l}/\text{well}$ 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 $\mu\text{l}/\text{well}$ of mAb IL2-II-biotin at 1 $\mu\text{g}/\text{ml}$ 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 $\mu\text{l}/\text{well}$ 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 $\mu\text{l}/\text{well}$ 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.

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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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the following standards:



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