ELISA for Mouse IL-2

Product Code: 3441-1A-20

CONTENTS, development kit for 20 plates:

Vial 1 (red top)
Monoclonal antibody 1A12 (500 µl)
Concentration: 1 mg/ml

Vial 2 (yellow top)
Biotinylated monoclonal antibody 5H4 (250 µl)
Concentration: 1 mg/ml

Vial 3 (white top)
Streptavidin-Alkaline Phosphatase (250 µl)

Vial 4
Recombinant mouse IL-2 standard (0.5 µg)

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 mouse IL-2 in solution, e.g. cell culture supernatant and serum/plasma samples.

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.

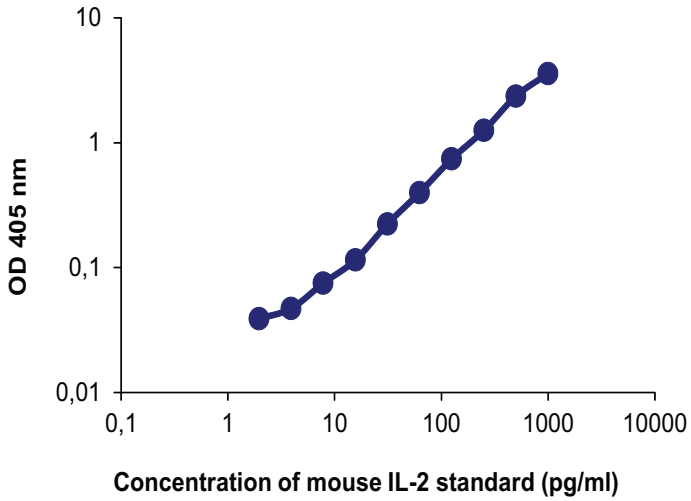
Standard range: 7-700 pg/ml

Limit of detection: 4 pg/ml

Intra-assay variation: < 5%

Standard calibration: 1 ng of supplied standard equals 128 U of 93/566 NIBSC*-standard according to repeated calibrations. Calibration is batch-specific.

*National Institute of Biological Standards and Control, UK.



Guidelines for Mouse IL-2 ELISA

Day 1

1. Coat a high protein binding ELISA plate with mAb 1A12, 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 mouse IL-2 standard by reconstituting contents of vial 4 in 500 µl PBS to make a stock solution of 1 µg/ml. Allow the standard to dissolve for 5 minutes, mix thoroughly and aliquot. Store at -20°C and avoid repeated freeze-thaw cycles of the standard aliquots. 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 5H4-biotin at 1 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-ALP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature.
11. Wash as in step 4.
12. Add 100 µl/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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