ELISA for Mouse IL-4

Product Code: 3311-1H-6

CONTENTS, development kit for 6 plates:

Vial 1 (red top)
Monoclonal antibody 11B11 (150 µl)
Concentration: 1 mg/ml

Vial 2 (blue top)
Biotinylated monoclonal antibody BVD6-24G2 (80 µl).
Concentration: 1 mg/ml

Vial 3 (white top)
Streptavidin-Horseradish Peroxidase (80 µl)

Vial 4
Recombinant mouse IL-4 standard (1 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 at -20°C.

General

Intended use: For quantitative determination of native mouse IL-4 in solution, e.g. cell culture supernatant and serum/plasma samples.

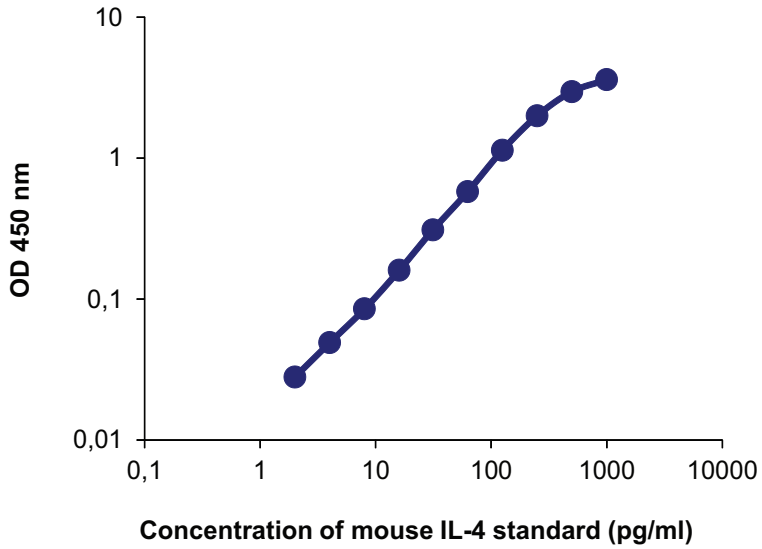
Reagents: Antibodies are supplied in sterile-filtered (0.2 µm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

Standard range: 4-400 pg/ml

Intra-assay variation: < 5%

Standard calibration: 1 ng of supplied standard equals 37 U of 91/656 NIBSC*-standard according to repeated calibrations. Calibration is batch-specific.

*National Institute of Biological Standards and Control, UK.



Guidelines for Mouse IL-4 ELISA

Day 1

1. Dilute mAb 11B11, diluted to 2 µg/ml in PBS, pH 7.4, and filter the solution through a 0.2 µm filter. Coat a high protein binding ELISA plate with the solution 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-4 standard by reconstituting contents of vial 4 in 1 ml 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 BVD6-24G2-biotin at 0.1 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-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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