

ELISA for Mouse IL-4

Product Code: 3311-1H-20

CONTENTS, development kit for 20 plates:

Vial 1 (red top)

Monoclonal antibody 11B11 (500 μ l)

Concentration: 1 mg/ml

Vial 2 (blue top)

Biotinylated monoclonal antibody BVD6-24G2 (250 μ l).

Concentration: 1 mg/ml

Vial 3 (white top)

Streptavidin-Horseradish Peroxidase (250 μ l)

Vial 4

Recombinant mouse IL-4 standard (1 μ g)

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 mouse IL-4 in solution, e.g. cell culture supernatant and serum/plasma samples.

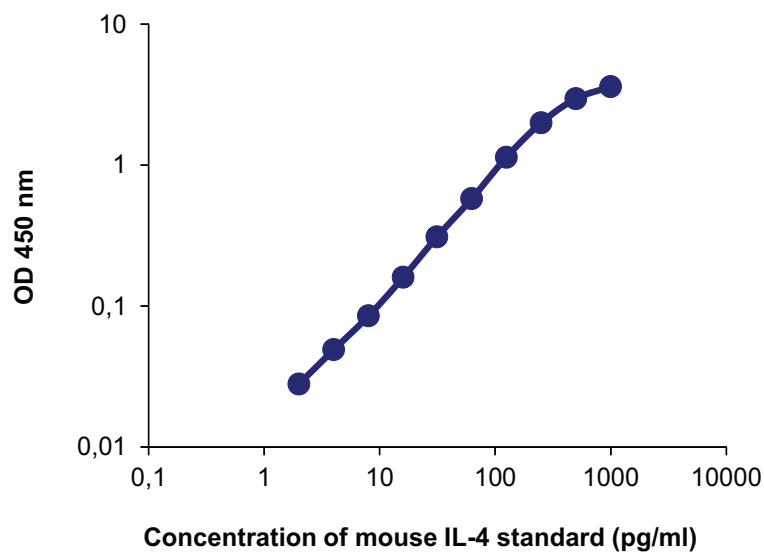
Reagents: Antibodies are supplied in sterile-filtered (0.2 μm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

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 $\mu\text{g}/\text{ml}$ 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 $\mu\text{l}/\text{well}$. 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 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 $\mu\text{g}/\text{ml}$. 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 $\mu\text{l}/\text{well}$ 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 $\mu\text{l}/\text{well}$ of mAb BVD6-24G2-biotin at 0.1 $\mu\text{g}/\text{ml}$ in incubation buffer. Incubate for 1 hour at room temperature.
 9. Wash as in step 4.
 10. Add 100 $\mu\text{l}/\text{well}$ 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 $\mu\text{l}/\text{well}$ 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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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the following standards:



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