

# Mouse IL-4 ELISA development kit

Product Code: 3311-1A-6

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CONTENTS, development kit for 6 plates:

**Vial 1 (red top)**

Monoclonal antibody 11B11 (150  $\mu$ l)

Concentration: 1 mg/ml

**Vial 2 (blue top)**

Biotinylated monoclonal antibody BVD6-24G2 (80  $\mu$ l).

Concentration: 1 mg/ml

**Vial 3 (white top)**

Streptavidin-Alkaline Phosphatase (80  $\mu$ l)

**Vial 4**

Recombinant mouse IL-4 standard (1  $\mu$ 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.

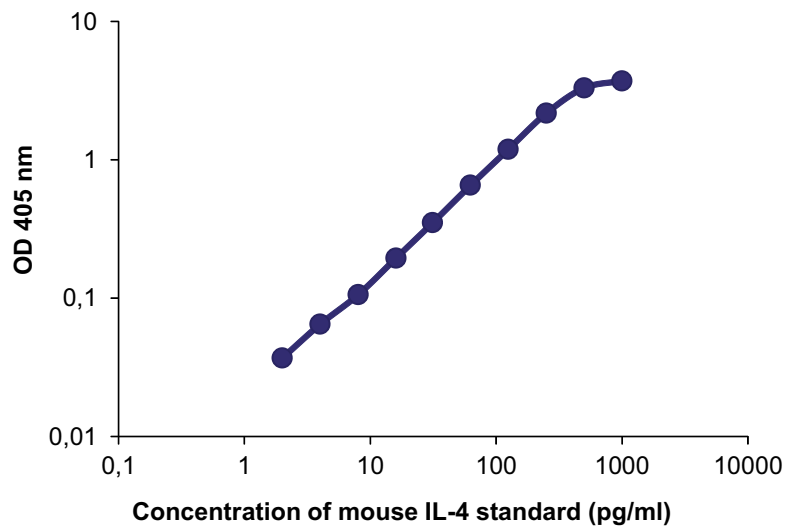
**Reagents:** Antibodies are supplied in sterile-filtered (0.2  $\mu\text{m}$ ) PBS with sodium azide (0.02%). Streptavidin-ALP is supplied in 0.1 M Tris buffer with 0.002% Kathon CG.

**Standard range:** 4-400 pg/ml

**Intra-assay variation:** < 5%

**Standard calibration:** 1 ng of supplied standard equals 25 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  $\mu\text{m}$  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-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), available from Mabtech product code 3652-P10.
  13. Measure the optical density (405 nm for pNPP) in an ELISA reader after suitable developing time.

Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.



**The products are for research use only.**

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Mabtech AB (Head Office)  
Sweden  
Tel: +46 8 716 27 00  
mabtech@mabtech.com

Mabtech, Inc.  
USA  
Tel: +1 513 871-4500  
mabtech.usa@mabtech.com