

# ELISA for Mouse IL-12 (p70)

Product Code: 3456-1H-6

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CONTENTS, development kit for 6 plates:

**Vial 1 (green top)**

Monoclonal antibody C17.8 (150  $\mu$ l)

Concentration: 1 mg/ml

**Vial 2 (blue top)**

Biotinylated monoclonal antibody IL12-IV (80  $\mu$ l)

Concentration: 1 mg/ml

**Vial 3 (white top)**

Streptavidin-Horseradish Peroxidase (80  $\mu$ l)

**Vial 4**

Recombinant mouse IL-12 p70 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.

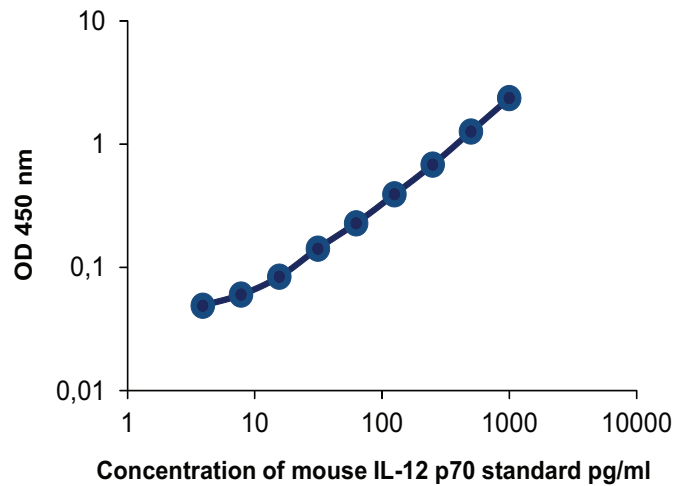
# General

**Intended use:** For quantitative determination of native and recombinant mouse IL-12 (p70) 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-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

**Standard range:** 10-1000 pg/ml

**Standard calibration:** No international standard exists for calibration.



# Guidelines for Mouse IL-12 (p70) ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb C17.8, diluted to 1  $\mu\text{g}/\text{ml}$  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 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-12 p70 standard by reconstituting contents of vial 4 in 1 ml PBS to give a concentration of 0.5  $\mu\text{g}/\text{ml}$ . Leave at room temperature for 15 minutes and then vortex the tube and spin down. Use immediately or store in aliquots at -20°C for future use. We recommend the aliquots not to 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 and incubate for 2 hours at room temperature.
  7. Wash as in step 4.
  8. Add 100  $\mu\text{l}/\text{well}$  of mAb IL12-IV-biotin at 0.5  $\mu\text{g}/\text{ml}$  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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2013-01-24

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



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