

# Human IgM ELISA development kit

Product Code: 3880-1AD-6

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**CONTENTS:** development kit for 6 plates

**Vial 1 (red top)**

Monoclonal antibodies MT11/12 (300 µl)

Concentration: 0.5 mg/ml

**Vial 2 (yellow top)**

Monoclonal antibody MT22-ALP (80 µl)

**Vial 3**

Lyophilised human IgM 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

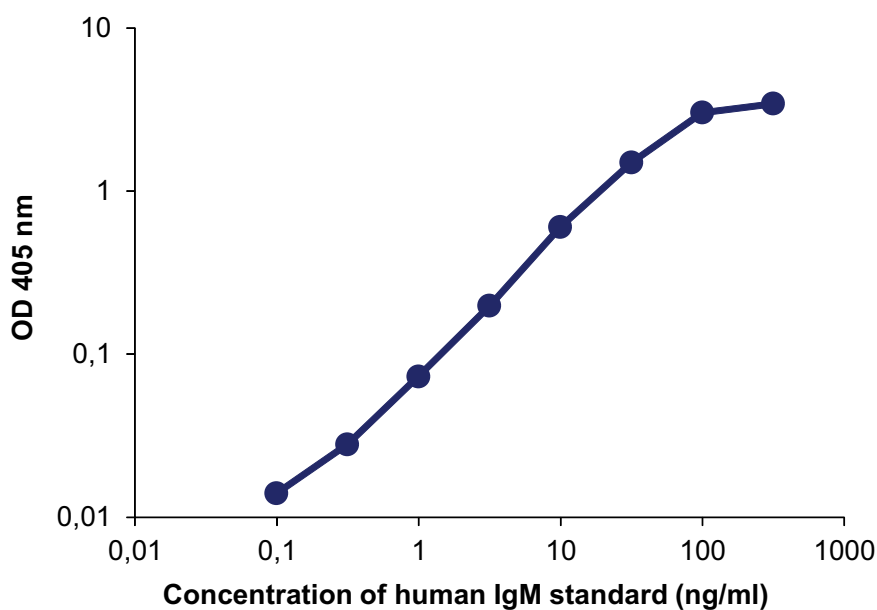
**Intended use:** For quantitative determination of native human IgM in serum, plasma or cell supernatant.

**Reagents:** MAbs MT11/12 are supplied in sterile-filtered (0.2  $\mu\text{m}$ ) PBS with sodium azide (0.02%). MT22-ALP is supplied in 0.1 M Tris-buffer with 1% BSA and 0.002% Kathon.

**Standard range:** 0.2-200 ng/ml

**Standard calibration:** 1  $\mu\text{g}$  of supplied standard equals 233 mU NIBSC\* standard. Calibration is batch-specific.

\* National Institute of Biological Standards and Control, UK.



# Guidelines for Human IgM ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAbs MT11/12, diluted to 2 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 (PBS-Tween) containing 0.1% BSA (incubation buffer\*). Incubate for 1 hour at room temperature.
  4. Wash five times with PBS-Tween.
  5. Prepare human IgM standard by reconstituting contents of vial 3 in 500 µl PBS to make up a stock solution of 50 µg/ml. The stock solution should be used immediately or stored in aliquots at -20°C for future use. We recommend the aliquots not be refrozen after initial use. 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. It is recommended to make serial dilutions of samples to obtain results within the standard range. Incubate for 2 hours at room temperature.
  7. Wash as in step 4.
  8. Add 100 µl/well of MT22-ALP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature.
  9. Wash as in step 4.
  10. Add 100 µl/well of appropriate substrate solution e.g. p-nitrophenyl-phosphate (pNPP).
  11. Measure the optical density (405 nm for pNPP) in an ELISA reader after suitable developing time.

\* The same buffer is used for blocking and for dilution.

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.**

MABTECH shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages there from.

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