

ELISA for Human IgM

Product Code: 3840-1AD-6

CONTENTS:

Vial 1 (red top)

Monoclonal anti-IgM antibody (300 μ l)

Concentration: 0.5 mg/ml

Vial 2 (yellow top)

ALP-conjugated anti-IgM antibody (80 μ l)

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

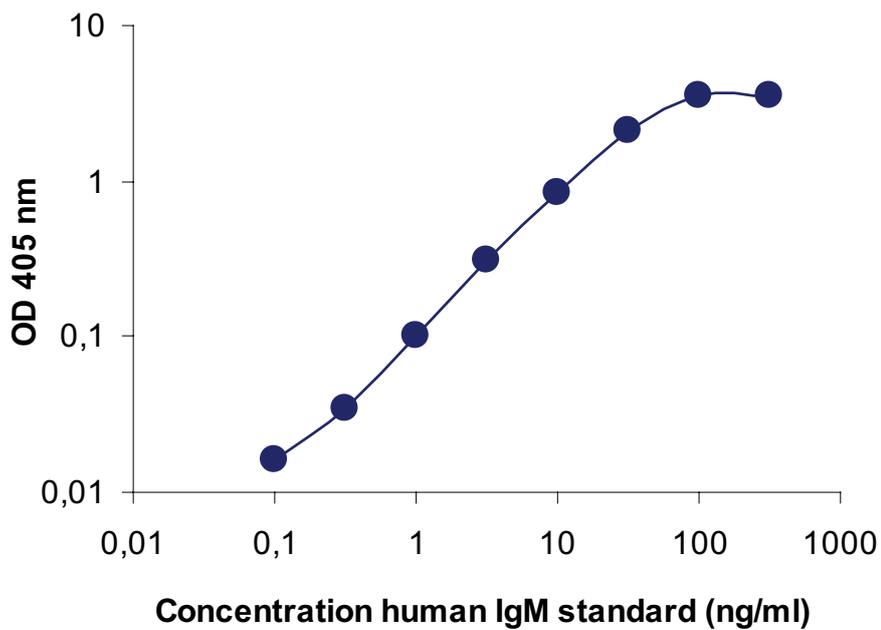
Intended use: For quantitative determination of native human IgM in serum and plasma.

Reagents: Anti-IgM monoclonal antibody is supplied in sterile-filtered (0.2 μm) PBS with sodium azide (0.02%). ALP-conjugated anti-IgM antibody is supplied in 0.1 M Tris-buffer with 0.15% Kathon CG.

Recommended standard dilution: 0.1-500 ng/ml

Standard calibration: 1 μg 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 anti-IgM monoclonal antibody, 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 anti-IgM-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.

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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