

Mouse IgM ELISA development kit

Product Code: 3885-1A-6

CONTENTS, development kit for 6 plates:

Vial 1 (green top)

Monoclonal antibody MT6A3 (300 µl)

Concentration: 0.5 mg/ml

Vial 2 (yellow top)

Biotinylated monoclonal antibody MT9A2 (80 µl)

Concentration: 0.5 mg/ml

Vial 3 (white top)

Streptavidin-Alkaline Phosphatase (80 µl)

Vial 4

Lyophilised mouse 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.

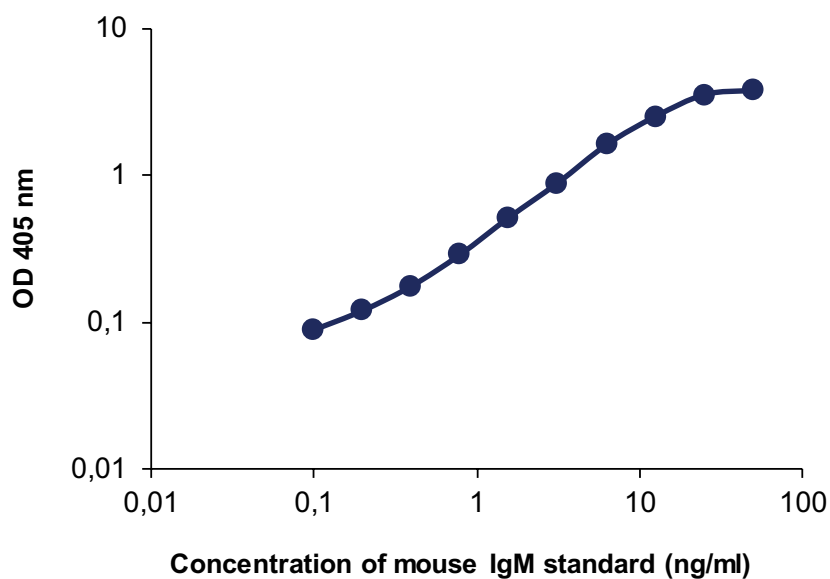
General

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

Reagents: Antibodies are supplied in sterile-filtered (0.2 μm) PBS with sodium azide (0.02%). Streptavidin-ALP is supplied in 0.1 M Tris buffer with 0.002% Kathon CG.

Standard range: Recommended standard dilution 0.1-20 ng/ml

Standard calibration: No international standard exists for calibration



Guidelines for Mouse IgM ELISA

Day 1 1. Coat a high protein binding ELISA plate with mAbs MT6A3, 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 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 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 mAb MT9A2-biotin at 0.5 µg/ml in incubation buffer. Incubate for 1 hour at room temperature.
 9. Wash as in step 4.
 10. Add 100 µl/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 µl/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.



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