

Human IgG high sensitivity ELISA development kit

Product Code: 3850-1H-6

CONTENTS, development kit for 6 plates:

Vial 1 (yellow top)

Monoclonal antibody MT145 (300 μ l)

Concentration: 0.5 mg/ml

Vial 2 (green top)

Biotinylated monoclonal antibody MT78 (50 μ l)

Concentration: 0.5 mg/ml

Vial 3 (white top)

Streptavidin-Horseradish Peroxidase (80 μ l)

Vial 4

Lyophilised human IgG 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

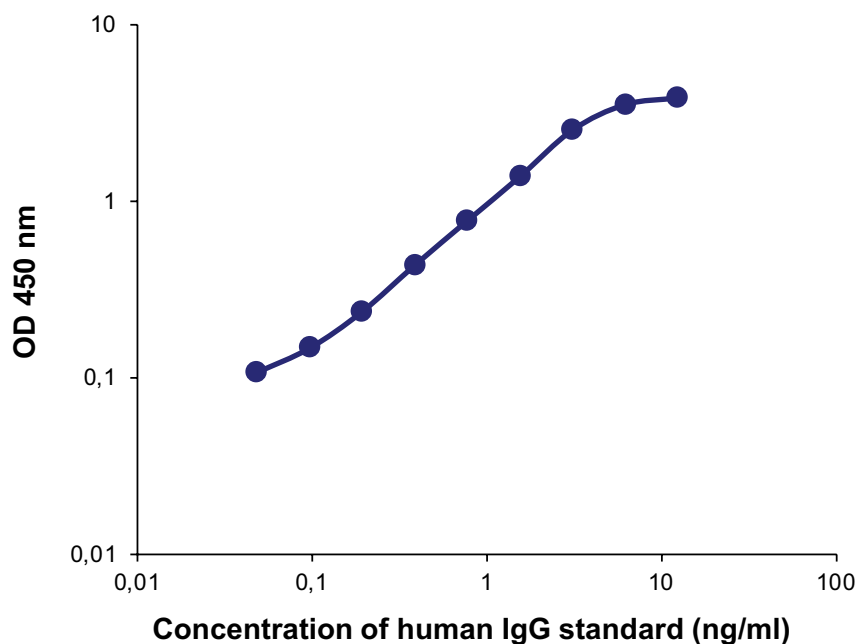
Intended use: For quantitative determination of native human IgG in serum, plasma or cell supernatant. The monoclonal antibodies in this kit are specific for the Fc part of human IgG.

Serum/plasma samples: Please note that serum/plasma samples diluted less than 10 times in the assay require the use of ELISA diluent (product code: 3652-D2) for dilution of samples, standard and detection antibody. The diluent prevents false positive read-outs which may be caused by interference of heterophilic antibodies found in plasma and serum. The ELISA diluent has been validated using serum/plasma from normal healthy human blood donors. Please note that heterophilic antibody interference in samples from human subjects with various diseases or other conditions has not been assessed. Please contact Mabtech for further information.

Reagents: Antibodies are supplied in sterile-filtered (0.2 μm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.002% Kathon CG.

Standard range: 0.1-10 ng/ml

Standard calibration: 1 μg of supplied standard equals 11 mU NIBSC* standard. Calibration is batch-specific.



Guidelines for Human IgG high sensitivity ELISA

Day 1 1. Coat a high protein binding ELISA plate with mAbs MT145, 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% Tween20
 5. Prepare human IgG standard by reconstituting contents of vial 4 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 or ELISA diluent and incubate for 2 hours at room temperature.
 7. Wash as in step 4.
 8. Add 100 µl/well of mAb MT78-biotin at 0.25 µg/ml in incubation buffer or ELISA diluent. Incubate for 1 hour at room temperature.
 9. Wash as in step 4.
 10. Add 100 µl/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 µl/well of appropriate substrate solution e.g. TMB, available from Mabtech product code 3652-F10.
 13. Measure the optical density in an ELISA reader after suitable developing time. If required stop the reaction first.

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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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