

ELISA for Human Apolipoprotein A1

Product Code: 3710-1H-20

CONTENTS, development kit for 20 plates:

Vial 1 (green top)

Monoclonal antibody HDL 110 (500 μ l)

Concentration: 1 mg/ml

Vial 2 (yellow top)

Biotinylated monoclonal antibody HDL 44 (250 μ l)

Concentration: 1 mg/ml

Vial 3 (white top)

Streptavidin-Horseradish Peroxidase (250 μ l)

Vial 4

Lyophilised apoA1 standard (10 μ g)

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

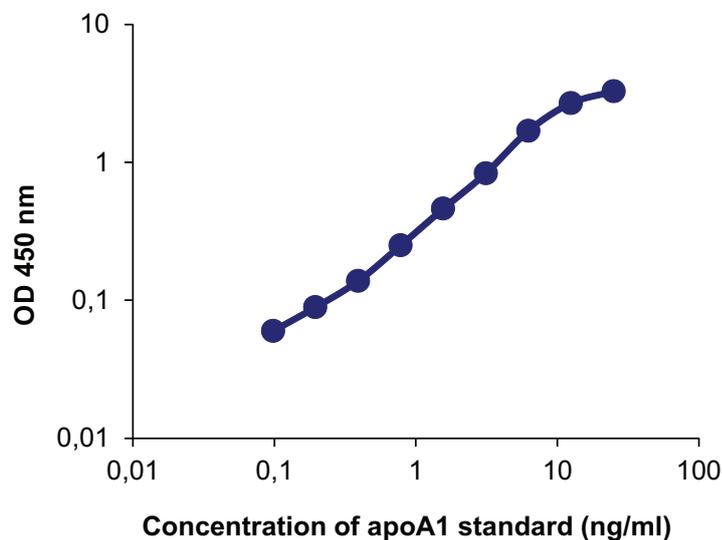
Intended use: For quantitative determination of native and recombinant human Apolipoprotein A1 in serum/plasma samples or cell culture supernatants. For blocking buffer, it is recommended to use BSA but not bovine serum, as HDL 44 also binds bovine Apolipoprotein A1.

Serum/plasma samples: Please note that determination of analyte in human serum/plasma samples by this kit requires the use of Assay buffer (product code: 3652-J2) for dilution of samples, standard and detection antibody. The diluent prevents false positive read-outs which may be caused by interference of heterophilic antibodies commonly found in human plasma and serum. The Assay buffer 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 0.15% Kathon CG.

Standard range: 0.2-20 ng/ml

Standard calibration: No international standard exists for calibration.



Guidelines for Human Apolipoprotein A1 ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb HDL 110, diluted to 2 $\mu\text{g/ml}$ in PBS, pH 7.4, by adding 100 $\mu\text{l/well}$. Incubate overnight at 4-8°C.
- Day 2**
2. Wash twice with PBS (200 $\mu\text{l/well}$).
 3. Block plate by adding 200 $\mu\text{l/well}$ 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 apoA1 standard by reconstituting contents of vial 4 in 1 ml PBS, do not stir. It is important to wait 20 minutes before resuspending the liquid. This gives a stock solution of 10 $\mu\text{g/ml}$ which should be used immediately or stored in aliquots at -20°C for future use. The recommended standard dilutions range from 0.1-40 ng/ml.
 6. Add 100 $\mu\text{l/well}$ of samples or standards diluted in incubation buffer or Assay buffer for serum/plasma samples and incubate for 1 to 2 hours at room temperature.
 7. Wash as in step 4.
 8. Add 100 $\mu\text{l/well}$ of mAb HDL 44-biotin at 0.5 $\mu\text{g/ml}$ in incubation buffer or Assay buffer for serum/plasma samples. Incubate for 1 hour at room temperature.
 9. Wash as in step 4.
 10. Add 100 $\mu\text{l/well}$ 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 $\mu\text{l/well}$ 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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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the following standards:



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