Human Apolipoprotein B ELISA Kit (APOB) ab108807

Product Overview

Abcam’s Apolipoprotein B (APOB) Human in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the quantitative measurement of Apolipoprotein B concentrations in Human plasma, serum, CSF and cell culture samples.

An Apolipoprotein B specific antibody has been precoated onto 96-well plates and blocked. Standards or test samples are added to the wells and subsequently an Apolipoprotein B specific biotinylated detection antibody is added and then followed by washing with wash buffer. Streptavidin-Peroxidase Complex is added and unbound conjugates are washed away with wash buffer. TMB is then used to visualize Streptavidin-Peroxidase enzymatic reaction. TMB is catalyzed by Streptavidin-Peroxidase to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the amount of Apolipoprotein B captured in plate.
Get results in 90 minutes with Human Apolipoprotein B ELISA Kit (ab190806) from our SimpleStep ELISA® range.

**Tested applications**  
**Suitable for:** Sandwich ELISA

**Platform**  
Microplate

**Properties**

**Storage instructions**  
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>100X Streptavidin-Peroxidase Conjugate</td>
<td>1 x 80µl</td>
</tr>
<tr>
<td>10X Diluent M Concentrate</td>
<td>1 x 30ml</td>
</tr>
<tr>
<td>20X Wash Buffer Concentrate</td>
<td>2 x 30ml</td>
</tr>
<tr>
<td>50X Biotinylated Human Apolipoprotein B Antibody</td>
<td>1 x 120µl</td>
</tr>
<tr>
<td>Apolipoprotein B Microplate (12 x 8 well strips)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Apolipoprotein B Standard</td>
<td>2 vials</td>
</tr>
<tr>
<td>Chromogen Substrate</td>
<td>1 x 8ml</td>
</tr>
<tr>
<td>Sealing Tapes</td>
<td>3 units</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 12ml</td>
</tr>
</tbody>
</table>

**Function**  
Apolipoprotein B is a major protein constituent of chylomicrons (apo B-48), LDL (apo B-100) and VLDL (apo B-100). Apo B-100 functions as a recognition signal for the cellular binding and internalization of LDL particles by the apoB/E receptor.

**Involvement in disease**  
Hypobetalipoproteinemia, familial, 1  
Familial ligand-defective apolipoprotein B-100  
Defects in APOB associated with defects in other genes (polygenic) can contribute to hypcholesterolemia.

**Sequence similarities**  
Contains 1 vitellogenin domain.

**Post-translational modifications**  
Palmitoylated; structural requirement for proper assembly of the hydrophobic core of the lipoprotein particle.

**Cellular localization**  
Cytoplasm. Secreted.

**Applications**

Our [Abpromise guarantee](#) covers the use of ab108807 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Apolipoprotein B measured in biological fluids and cell culture medium with background signal subtracted (duplicates +/- SD).

Typical Standard Curve

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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