# Product datasheet

## Recombinant Human Apolipoprotein B ab80037

### Description

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant Human Apolipoprotein B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Expression system</strong></td>
<td>Escherichia coli</td>
</tr>
<tr>
<td><strong>Accession</strong></td>
<td>P04114</td>
</tr>
<tr>
<td><strong>Protein length</strong></td>
<td>Protein fragment</td>
</tr>
<tr>
<td><strong>Animal free</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Nature</strong></td>
<td>Recombinant</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human</td>
</tr>
<tr>
<td><strong>Sequence</strong></td>
<td>NPVSKGLLIFDASSSWGPQMSAVHLDSSKKQHLFVKEV KIDGQFRVSSF YAKGTYGLSCQRDPNTOURLNGESNLRFNSYLOGTNQITG RYEDGTLSLT STSDLQSGIKNTASLKYENYELTLKSDTNGKYKNFATSNK MDMTFSKQN ALLRSEYQADY</td>
</tr>
</tbody>
</table>

### Predicted molecular weight

31 kDa including tags

### Amino acids

1406 to 1606

### Tags

His tag N-Terminus

### Additional sequence information

E. coli derived ApoB100 fusion protein with His tag

### Specifications

Our Abpromise guarantee covers the use of ab80037 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications**

- Western blot
- ELISA
- SDS-PAGE

**Form**

Lyophilized

### Preparation and Storage

**Stability and Storage**

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Constituent: PBS
## Reconstitution

Redissolve the powder with 1 ml sterile water will restore to the original concentration 1 mg/ml.

## General Info

### 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 hypocholesterolemia.

### 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.

## Images

20% SDS-PAGE gel analysis showing ab80037 at approximately 31 kDa. Commassie blue staining.

## Please note:

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

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