Product datasheet

Anti-Apolipoprotein A I antibody ab227455

Overview

Product name: Anti-Apolipoprotein A I antibody
Description: Rabbit polyclonal to Apolipoprotein A I
Host species: Rabbit
Tested applications: Suitable for: IHC-P, WB
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Recombinant full length protein corresponding to Human Apolipoprotein A I.
Database link: P02647
Positive control: WB: Mouse, rat and human plasma extracts. IHC-P: Human liver tissue.

Properties

Form: Liquid
Storage buffer: pH: 7.00
Preservative: 0.025% Proclin
 Constituents: PBS, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab227455 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/1000.</td>
<td></td>
</tr>
</tbody>
</table>
### Function
Participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin cholesterol acyltransferase (LCAT). As part of the SPAP complex, activates spermatozoa motility.

### Tissue specificity
Major protein of plasma HDL, also found in chylomicrons. Synthesized in the liver and small intestine.

### Involvement in disease
Defects in APOA1 are a cause of high density lipoprotein deficiency type 2 (HDLD2) [MIM:604091]; also known as familial hypoalphalipoproteinemia (FHA). Inheritance is autosomal dominant.

Defects in APOA1 are a cause of the low HDL levels observed in high density lipoprotein deficiency type 1 (HDLD1) [MIM:205400]; also known as analphalipoproteinemia or Tangier disease (TGD). HDLD1 is a recessive disorder characterized by the absence of plasma HDL, accumulation of cholesteryl esters, premature coronary artery disease, hepatosplenomegaly, recurrent peripheral neuropathy and progressive muscle wasting and weakness. In HDLD1 patients, ApoA-I fails to associate with HDL probably because of the faulty conversion of pro-ApoA-I molecules into mature chains, either due to a defect in the converting enzyme activity or a specific structural defect in Tangier ApoA-I.

Defects in APOA1 are the cause of amyloid polyneuropathy-nephropathy Iowa type (AMYLIOWA) [MIM:107680]; also known as amyloidosis van Allen type or familial amyloid polyneuropathy type III. AMYLIOWA is a hereditary generalized amyloidosis due to deposition of amyloid mainly constituted by apolipoprotein A1. The clinical picture is dominated by neuropathy in the early stages of the disease and nephropathy late in the course. Death is due in most cases to renal amyloidosis. Severe peptic ulcer disease can occur in some and hearing loss is frequent. Cataracts is present in several, but vitreous opacities are not observed.

Defects in APOA1 are a cause of amyloidosis type 8 (AMYL8) [MIM:105200]; also known as systemic non-neuropathic amyloidosis or Ostertag-type amyloidosis. AMYL8 is a hereditary generalized amyloidosis due to deposition of apolipoprotein A1, fibrinogen and lysozyme amyloids. Viscera are particularly affected. There is no involvement of the nervous system. Clinical features include renal amyloidosis resulting in nephrotic syndrome, arterial hypertension, hepatosplenomegaly, cholestasis, petechial skin rash.

### Sequence similarities
Belongs to the apolipoprotein A1/A4/E family.

### Post-translational modifications
Palmitoylated.

### Cellular localization
Secreted.

### Images
Western blot - Anti-Apolipoprotein A I antibody (ab227455)

Antibody: Anti-Apolipoprotein A I antibody (ab227455) at 1/500 dilution + Mouse plasma extract at 30 µg

**Secondary**

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 31 kDa

12% SDS-PAGE gel.

Paraffin-embedded human liver tissue stained for Apolipoprotein A I using ab227455 at 1/500 dilution in immunohistochemical analysis.
Anti-Apolipoprotein A I antibody (ab227455) at 1/500 dilution + Rat plasma extract at 30 µg

**Secondary**

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 31 kDa

12% SDS-PAGE gel.

---

Anti-Apolipoprotein A I antibody (ab227455) at 1/10000 dilution + Human plasma extract at 30 µg

**Secondary**

HRP-conjugated anti-rabbit IgG

**Predicted band size:** 31 kDa

12% SDS-PAGE gel.

---

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
Valid for 12 months from date of delivery

Response to your inquiry within 24 hours

We provide support in Chinese, English, French, German, Japanese and Spanish

Extensive multi-media technical resources to help you

We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

Guarantee only valid for products bought direct from Abcam or one of our authorized distributors