Anti-Lipoprotein a antibody [EPR6474] ab125014

Overview

Product name: Anti-Lipoprotein a antibody [EPR6474]
Description: Rabbit monoclonal [EPR6474] to Lipoprotein a
Host species: Rabbit
Tested applications:
Suitable for: WB
Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity:
Reacts with: Human
Immunogen:
Synthetic peptide within Human Lipoprotein a aa 150-250. The exact sequence is proprietary.
Positive control:
WB: Human plasma lysate.
General notes:
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions:
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer:
pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity: Protein A purified
Applications

Our Abpromise guarantee covers the use of ab125014 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>WB</td>
<td>1/10000 - 1/50000. Detects a band of approximately 501 kDa (predicted molecular weight: 501 kDa).</td>
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</tbody>
</table>

Application notes

Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

Relevance

Lipoprotein(a) (Lp(a)) is a lipoprotein subclass assembled in the blood from low density lipoprotein (LDL) molecules and apolipoprotein-a (apo-a). Lp(a) recruits inflammatory cells through interaction with Mac-1 integrin. High Lp(a) in blood is a risk factor for coronary heart disease, cerebrovascular disease, atherosclerosis, thrombosis, and stroke. Lp(a) concentrations may be affected by disease states, but are only moderately affected by diet, exercise and other environmental factors. Lipid-reducing drugs have no effect on Lp(a) concentration. High Lp(a) predicts risk of early atherosclerosis similar to high LDL, but in advanced atherosclerosis, Lp(a) is a risk factor independent of LDL, indicating a coagulant risk of plaque thrombosis. Apo(a) contains domains that are very similar to plasminogen (PLG). Lp(a) accumulates in the vessel wall and inhibits binding of PLG to the cell surface, reducing plasmin generation which increases clotting. This inhibition also promotes proliferation of smooth muscle cells. These unique features of Lp(a) suggest a role in the generation of clots and atherosclerosis.

Images

Anti-Lipoprotein a antibody [EPR6474] (ab125014) at 1/50000 dilution (purified) + Human plasma lysate at 10 µg

Secondary

HRP-conjugated goat anti-rabbit IgG (specific to the non-reduced form of IgG) at 1/1000 dilution

Predicted band size: 501 kDa

Observed band size: 501 kDa

Blocking and dilution buffer: 5% NFDM /TBST.
The observed bands are consistent with description in PMID:10703674, which should be N-terminal fragments.

Anti-Lipoprotein a antibody [EPR6474] (ab125014) at 1/20000 dilution (unpurified) + Human plasma lysate at 10 µg

**Secondary**
HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

**Predicted band size:** 501 kDa  
**Observed band size:** 500 kDa  
why is the actual band size different from the predicted?

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[Image of Western blot - Anti-Lipoprotein a antibody [EPR6474] (ab125014)]