Product datasheet

Anti-alpha 1 Fetoprotein antibody [EPAFP61] ab133617

Overview

Product name: Anti-alpha 1 Fetoprotein antibody [EPAFP61]
Description: Rabbit monoclonal [EPAFP61] to alpha 1 Fetoprotein
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC, IP, Flow Cyt
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide within Human alpha 1 Fetoprotein. The exact sequence is proprietary.
Positive control: HepG2 and Human fetal liver lysates; Human hepatocellular carcinoma tissue.
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.

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. Stable for 12 months at -20°C.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EPAFP61
Isotype: IgG

Applications
Function
binds copper, nickel, and fatty acids as well as bilirubin less well than serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties.

Tissue specificity
Plasma. Synthesized by the fetal liver and yolk sac.

Sequence similarities
Belongs to the ALB/AFP/VDB family. Contains 3 albumin domains.

Developmental stage
Occurs in the plasma of fetuses more than 4 weeks old, reaches the highest levels during the 12th-16th week of gestation, and drops to trace amounts after birth. The serum level in adults is usually less than 40 ng/ml. AFP occurs also at high levels in the plasma and ascitic fluid of adults with hepatoma.

Post-translational modifications
Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence. Sulfated.

Cellular localization
Secreted.

Our Abpromise guarantee covers the use of ab133617 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 70 kDa (predicted molecular weight: 68 kDa).</td>
<td></td>
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<tr>
<td>IHC-P</td>
<td>1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Heat up to 98°C, below boiling, and then let cool for 10-20 min.</td>
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<tr>
<td>ICC</td>
<td>1/100 - 1/250.</td>
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<tr>
<td>IP</td>
<td>1/10 - 1/100.</td>
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<tr>
<td>Flow Cyt</td>
<td>1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
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</tbody>
</table>

Target

Function
Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties.

Tissue specificity
Plasma. Synthesized by the fetal liver and yolk sac.

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Post-translational modifications
Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence. Sulfated.

Cellular localization
Secreted.
All lanes: Anti-alpha 1 Fetoprotein antibody [EPAFP61] (ab133617) at 1/10000 dilution

Lane 1: HepG2 cell lysate
Lane 2: Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 68 kDa

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma labelling alpha 1 Fetoprotein with ab133617 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ab133617 showing negative staining in Breast carcinoma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ab133617 showing negative staining in Glioma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ab133617 showing positive staining in Hepatocellular carcinoma poor differentiated tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ab133617 showing positive staining in Hepatocellular carcinoma well differentiated tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ab133617 showing negative staining in Normal liver tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ab133617 showing negative staining in Lung adenocarcinoma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ab133617 showing negative staining in Normal tonsil tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ab133617 showing negative staining in Colonic adenocarcinoma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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- Response to your inquiry within 24 hours

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

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