

Product datasheet

Anti-alpha 1 Fetoprotein antibody [EPR9309] ab169552

Recombinant RabMAb

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Overview

Product name	Anti-alpha 1 Fetoprotein antibody [EPR9309]
Description	Rabbit monoclonal [EPR9309] to alpha 1 Fetoprotein
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human alpha 1 Fetoprotein. The exact sequence is proprietary.
Positive control	Human plasma, HepG2 and Human fetal liver lysates, Human moderately differentiated hepatocellular carcinoma and Human poorly differentiated hepatocellular carcinoma tissues, HepG2 cells
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

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 long term.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR9309
Isotype	IgG

Applications

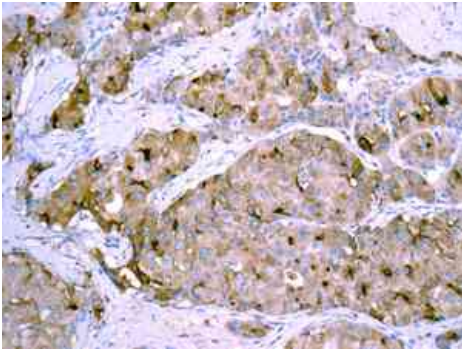
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab169552 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/50. ab172730 -Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 68 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.
IP		1/10 - 1/100.

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.
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.

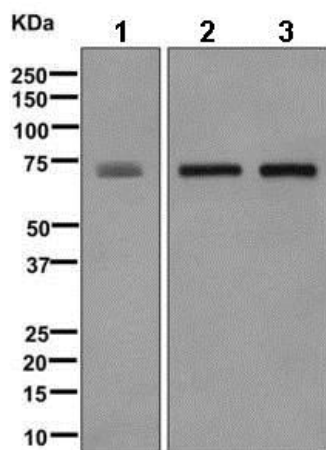
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552)

Immunohistochemical analysis of paraffin embedded human moderately differentiated hepatocellular carcinoma tissue labeling alpha 1 Fetoprotein with ab169552 antibody at 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552)

All lanes : Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552) at 1/1000 dilution

Lane 1 : Human plasma lysate

Lane 2 : HepG2 lysate

Lane 3 : Human fetal liver lysate

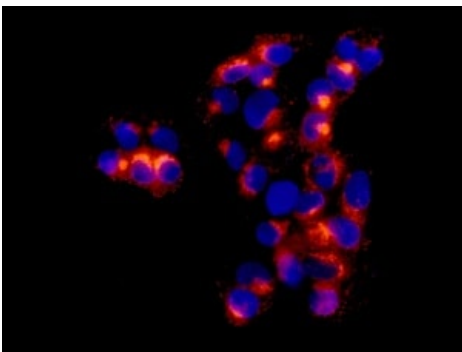
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

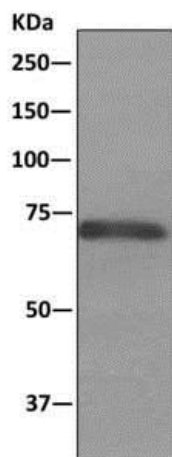
Predicted band size: 68 kDa

Observed band size: 70 kDa



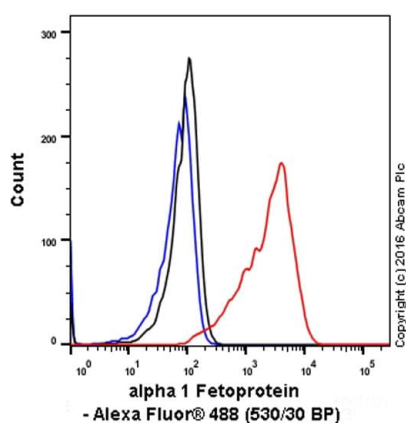
Immunocytochemistry/ Immunofluorescence - Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552)

Immunofluorescent analysis of HepG2 cells labeling alpha 1 Fetoprotein with ab169552 at 1/100.



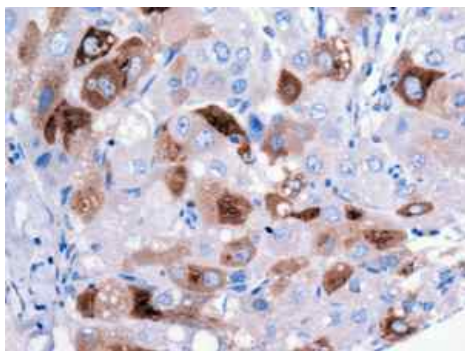
Immunoprecipitation - Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552)

Immunoprecipitation. ab169552 at 1/1000 staining alpha 1 Fetoprotein in HepG2 cell lysate immunoprecipitated using ab169552 at 1/10. Predicted band size : 68 kDa.



Flow Cytometry (Intracellular) - Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552)

Intracellular Flow Cytometry analysis of HepG2 (human hepatocellular carcinoma) cells labeling alpha 1 Fetoprotein with purified ab169552 at 1/50 dilution (red). The secondary antibody was Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution. A Rabbit monoclonal IgG (Black) was used as the isotype control and cells without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha 1 Fetoprotein antibody [EPR9309] (ab169552)

Immunohistochemical analysis of paraffin embedded Human poorly differentiated hepatocellular carcinoma tissue labeling alpha 1 Fetoprotein with ab169552 antibody at 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-alpha 1 Fetoprotein antibody [EPR9309]
(ab169552)

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