

Product datasheet

Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free ab188828

Recombinant RabMAb

5 Images

Overview

Product name	Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free
Description	Rabbit monoclonal [EPR9309] to alpha 1 Fetoprotein - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human alpha 1 Fetoprotein. The exact sequence is proprietary.
Positive control	IHC-P: Human moderately differentiated hepatocellular carcinoma tissue.
General notes	ab188828 is the carrier-free version of ab169552 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Ab188828 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

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

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. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9309
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab188828** in the following tested applications.

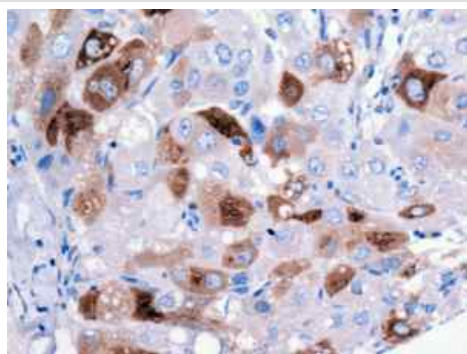
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 68 kDa.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		Use at an assay dependent concentration. ab199376 -Rabbit monoclonal IgG (Low endotoxin, Azide free), is suitable for use as an isotype control with this antibody.
ICC/IF		Use at an assay dependent concentration.

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.

Images

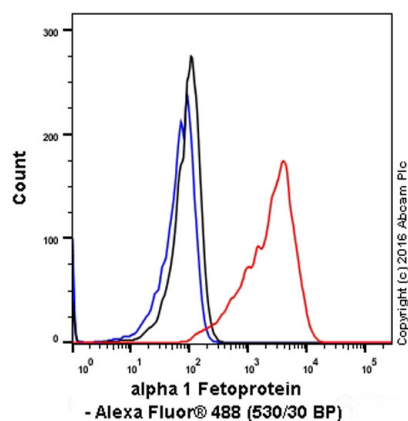


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free (ab188828)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab169552](#)).

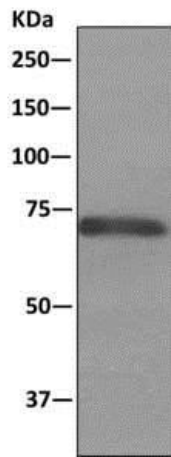
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry - Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free (ab188828)

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.

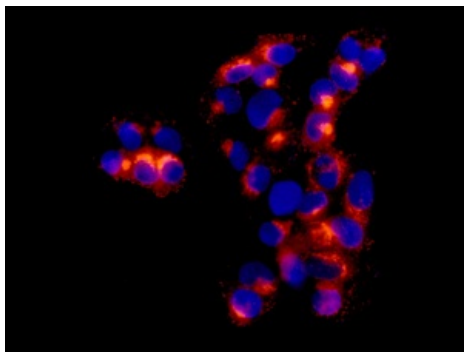
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab169552](#)).



Immunoprecipitation - Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free (ab188828)

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

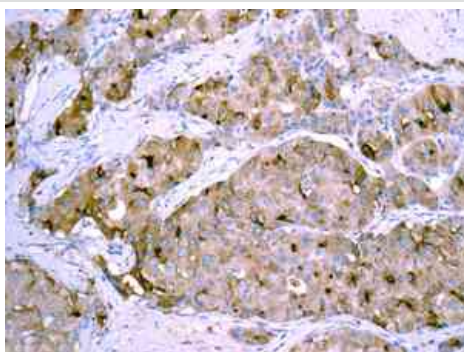
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab169552](#)).



Immunocytochemistry/ Immunofluorescence - Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free (ab188828)

Immunofluorescent analysis of HepG2 cells labeling alpha 1 Fetoprotein with [ab169552](#) at 1/100.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab169552](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha 1 Fetoprotein antibody [EPR9309] - BSA and Azide free (ab188828)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab169552](#)).

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

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