

Datasheet: VMA00036

Description:	MOUSE ANTI ALPHA FETOPROTEIN
Specificity:	ALPHA FETOPROTEIN
Other names:	AFP
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Immunogen	Purified human alpha fetoprotein
External Database Links	UniProt: P02771 Related reagents

Entrez Gene:[174](#) AFP [Related reagents](#)**Synonyms**

HPAFP

Specificity

Mouse anti Human alpha fetoprotein antibody recognizes alpha fetoprotein (AFP), a 609 amino acid member of the [ALB/AFP/VDB](#) family containing 3 [albumin domains](#). Human alpha fetoprotein, also known as alpha fetoglobulin is a plasma protein found in fetuses over four weeks old, produced by the yolk sac and the fetal liver, with the highest concentration reached during the 12th to 16th week of gestation. It binds and transports various ligands such as bilirubin, fatty acids, steroids, heavy metals and various drugs ([Aoyagi et al. 1979](#)). After birth, plasma levels drop to trace amounts in healthy adults.

Elevated AFP levels are indicative of certain cancers, particularly hepatocellular carcinoma, cancer of the testes or ovaries or a malignant teratoma. During pregnancy increased levels of AFP may indicate neural tube defects such as spina bifida ([Bredaki et al. 2012](#)), while decreased levels could indicate Down's syndrome ([Norgaard-Pedersen et al. 1976](#)).

Mouse Anti Human Alpha Fetoprotein antibody recognizes alpha fetoprotein as a band of ~69 kDa in HepG2 whole cell lysate by Western blotting under reducing conditions and does not cross-react with human albumin.

Western Blotting

Anti alpha fetoprotein antibody detects a band of approximately 69 kDa in HepG2 cell lysates.

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00036>
Antibody (10040)

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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