

Datasheet: VMA00036

**BATCH NUMBER 191214**

<b>Description:</b>	MOUSE ANTI ALPHA FETOPROTEIN
<b>Specificity:</b>	ALPHA FETOPROTEIN
<b>Other names:</b>	AFP
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

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

[P02771](#)   [Related reagents](#)

**Entrez Gene:**

[174](#) AFP   [Related reagents](#)

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**Synonyms**      HPAFP

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**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.

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

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

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**Guarantee**      12 months from date of despatch

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**Acknowledgements**      PrecisionAb is a trademark of Bio-Rad Laboratories.

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

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**Regulatory**      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**North & South America**      Tel: +1 800 265 7376

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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](https://bio-rad-antibodies.com/datasheets)  
'M369855:200529'

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