

Datasheet: MCA5862G

**BATCH NUMBER 172283**

<b>Description:</b>	MOUSE ANTI HUMAN ALPHA FETOPROTEIN
<b>Specificity:</b>	ALPHA FETOPROTEIN
<b>Other names:</b>	AFP
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	125.6G7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	1 mg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			5µg/ml
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared 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>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P02771</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">174</a> AFP    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HPAFP
<b>RRID</b>	AB_10672456
<b>Specificity</b>	<p><b>Mouse anti Human alpha fetoprotein, clone 125.6G7</b> is a monoclonal antibody recognizing alpha fetoprotein (AFP), a member of the albuminoid protein superfamily, along with albumin and vitamin D binding protein. Members of the albuminoid superfamily comprise molecules with three characteristic globular domains (<a href="#">Mizejewski 1995</a>) .</p> <p>AFP is a ~70 kDa 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. AFP acts as a transport protein for various ligands such as bilirubin, fatty acids, steroids and heavy metals. After birth, plasma AFP levels drop rapidly with only trace amounts remaining in healthy adults. Changes in plasma levels of AFP have been documented in a variety of cancers including hepatocellular cancer (<a href="#">Sato <i>et al.</i> 1993</a>)</p> <p>Clone 125.6G7 shows &lt;0.1% reactivity with human serum albumin and IgG. Strong expression of AFP has been noted in the hepatic cell line <a href="#">HepG2</a>.</p>
<b>References</b>	1. Chen, C. <i>et al.</i> (2023) Quantitative mass spectrometric analysis of hepatocellular carcinoma biomarker alpha-fetoprotein <a href="#">RSC Chemical Biology. 9 Oct [Epub ahead of print]</a> .
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5862G">https://www.bio-rad-antibodies.com/SDS/MCA5862G</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

### Recommended Negative Controls

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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