

Datasheet: MCA2753

Description:	MOUSE ANTI HUMAN ALPHA FETOPROTEIN
Specificity:	ALPHA FETOPROTEIN
Other names:	AFP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4A3
Isotype:	IgG2a
Quantity:	0.2 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Purified human alpha fetoprotein.
External Database Links	<p>UniProt: P02771 Related reagents</p> <p>Entrez Gene: 174 AFP Related reagents</p>
Synonyms	HPAFP
RRID	AB_2242409
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human alpha Fetoprotein antibody, clone 4A3 recognizes alpha fetoprotein (AFP), a member of the albuminoid superfamily. It is a 68kD 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. After birth, plasma levels drop to trace amounts in healthy adults.</p> <p>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, while decreased levels could indicate Down's syndrome.</p> <p>Mouse anti Human alpha Fetoprotein antibody, clone 4A3 does not cross-react with human albumin.</p>
References	1. Wang, X.W. & Xu, B. (1998) Stimulation of tumor-cell growth by alpha-fetoprotein. Int J Cancer. 75 (4): 596-9.
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Human Anti Mouse IgG2a (HCA037...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M389478:210806'

Printed on 21 Mar 2022