

Datasheet: PHP152

BATCH NUMBER 151844

Description:	PURIFIED HUMAN ALPHA FETOPROTEIN
Name:	ALPHA FETOPROTEIN
Other names:	AFP
Format:	Purified
Product Type:	Purified Protein
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Functional Assays			▪	
Immunoassay	▪			

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 human alpha fetoprotein - liquid
Preparation	Purified human alpha fetoprotein from human cord serum
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Total protein concentration 1.0 mg/ml

External Database Links

UniProt:

[P02771](https://www.uniprot.org/uniprot/P02771)

[Related reagents](#)

Entrez Gene:

[174](#) AFP [Related reagents](#)

Synonyms

HPAFP

Product Information

Purified Human alpha fetoprotein is a 63 kDa protein which binds copper, nickel, fatty acids, bilirubin and serum albumin. It is expressed mostly during fetal development, existing only at very low levels in healthy adults. Alpha fetoprotein is therefore a useful marker for diseases such as hepatocellular carcinoma, testicular cancer, Downs syndrome and neural tube defects.

Protein Molecular Weight

63 kDa

Purity

>95%.

References

1. Mizejewski G. (2001) Alpha-fetoprotein Structure and Function: Relevance to Isoforms, Epitopes, and Conformational Variants. [Experimental Biology and Medicine, 226:377-408.](#)
2. Hung, T.M. *et al.* (2011) Downregulation of alpha-fetoprotein expression by LHX4: a critical role in hepatocarcinogenesis. [Carcinogenesis. 32 \(12\): 1815-23.](#)

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10236 available at:
<https://www.bio-rad-antibodies.com/SDS/PHP152>
10236

Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg, HCV antibodies, HIV1 P24 antigen and Syphilis.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious

Regulatory

For research purposes only

North & South Tel: +1 800 265 7376

America 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](https://www.bio-rad-antibodies.com/datasheets)

'M345338:190125'

Printed on 18 Jan 2024