

Datasheet: MCA2713

Description:	MOUSE ANTI HUMAN H-FABP
Specificity:	H-FABP
Other names:	FABP3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10E1
Isotype:	IgG1
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			▪	
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 IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen Human heart FABP (H-FABP).

External Database Links

UniProt:

[P05413](#) [Related reagents](#)

Entrez Gene:

[2170](#) FABP3 [Related reagents](#)

Synonyms FABP11, MDGI

RRID AB_2102332

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.

Specificity

Mouse anti Human H-FABP antibody, clone 10E1 detects human H-FABP, also known as heart type fatty-acid binding protein, and FABP3. H-FABP belongs to the FABP family, and is a 14kDa cytosolic non-enzymatic protein involved in the uptake, transport and metabolism of fatty acids. H-FABP also has a role in cell proliferation and is a candidate tumour suppressor gene in breast cancer.

H-FABP was initially purified from the heart muscle, but has since been found to have a widespread tissue distribution, with highest concentration in cardiac and skeletal muscle.

H-FABP has been implicated in neurodegenerative disorders, including Down syndrome and Alzheimer's disease, and is a specific and sensitive biomarker for acute myocardial infarctions.

References

1. Steinacker ,P. *et al.* (2004) Heart fatty acid binding protein as a potential diagnostic marker for neurodegenerative diseases. [Neurosci Lett. 370 \(1\): 36-9.](#)
 2. Cheon, M.S. *et al.* (2003) Heart type fatty acid binding protein (H-FABP) is decreased in brains of patients with Down syndrome and Alzheimer's disease. [J Neural Transm Suppl. \(67\): 225-34.](#)
 3. Tambara, K. *et al.* (2004) Pericardial fluid level of heart-type cytoplasmic fatty acid-binding protein (H-FABP) is an indicator of severe myocardial ischemia. [Int J Cardiol. 93 \(2-3\): 281-4.](#)
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Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

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

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
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