

FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Publication Part no. MAN0005988

Rev. 1.0

Catalog Number: 701158

Store at 2 to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human FABP4
Predicted Reactivity: Human

Product Description

FABP4 (fatty acid-binding protein 4) belongs to the fatty acid binding protein (FABP) family. FABPs contribute to the transport of fatty acids and other lipids in various cellular pathways. FABP4 is expressed in adipocytes, macrophages, monocyte-derived dendritic cells, and myoepithelial cells. It delivers long-chain fatty acids, and retinoic acid to their cognate receptors in the nucleus.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 1–132 of human adipocyte-type fatty acid-binding protein
Alternate Names: AFABP, ALBP
Apparent MW: ~15 kDa
Gene ID: 2167
Protein Accession No.: P15090
Sequence Identity: Human
Clone/PAD: 2H3L2
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Mouse	3T3 L1 cells	0.1–1 µg/mL
Immunocytochemistry	Human	HeLa cells	1–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and Handling

Store the antibody at 2 to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

Stability

Expires one year from date of receipt when stored as instructed.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Note: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

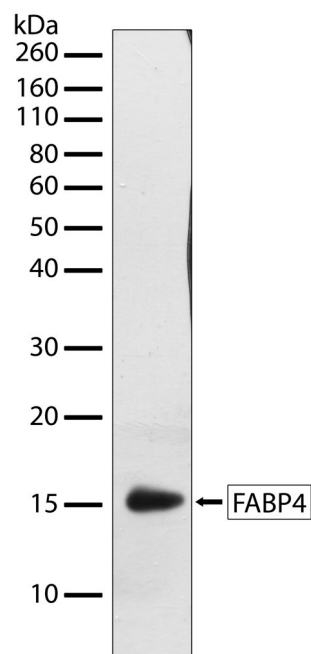


Figure 1 Western blot analysis of FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701158). Western blot analysis was performed on whole cell extracts of serum starved 3T3 L1 cells treated with Insulin (100 ng/mL for 15 min). Endogenous FABP4 at ~15 kDa was detected using FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody at a concentration of 1 µg/mL. The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

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Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to www.invitrogen.com/support and search for the Certificate of Analysis by product lot number, which is printed on the box.

Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

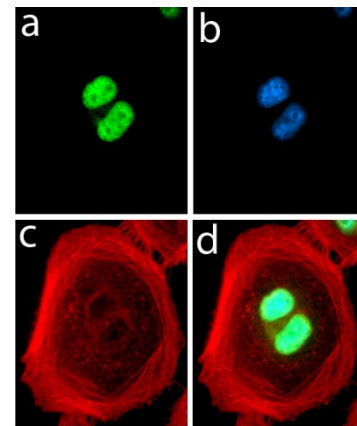


Figure 2 Immunocytochemistry analysis of FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701158). Immunocytochemistry analysis of HeLa cells stained with FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody, using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained HeLa nuclei (blue). **c**: Actin stained Alexa Fluor® 594 phalloidin (red). **d**: Composite image of cells showing nuclear localization of FABP4.

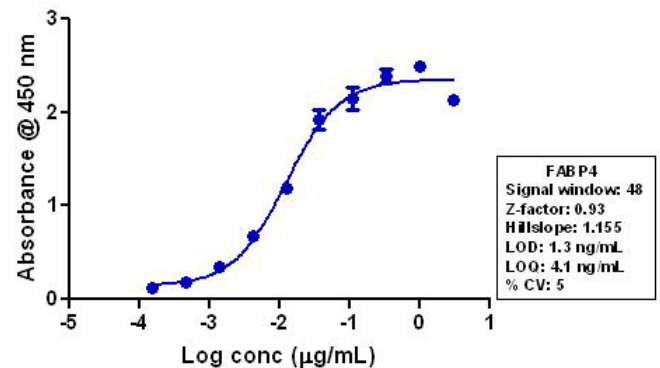


Figure 3 Indirect ELISA of FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701158). Indirect ELISA was performed using various dilutions of FABP4 ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701158) to detect recombinant FABP4 protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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