**Product datasheet**

**Anti-FABP4 antibody [EPR3579] ab92501**

![RabMAb](rabbma.png)

🌟🌟🌟🌟 2 Abreviews  33 References  5 Images

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**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-FABP4 antibody [EPR3579]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [EPR3579] to FABP4</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Specificity</td>
<td>Ab92501 may cross-react with FABP, FABP3 and FABP9 based on the blast alignments. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.</td>
</tr>
</tbody>
</table>

**Tested applications**

Suitable for: WB, ICC/IF, IHC-P

**Species reactivity**

Reacts with: Mouse, Rat, Human

**Immunogen**

A synthetic peptide corresponding to residues in Human FABP4.

**Positive control**

WB: Mouse brown adipose tissue, Mouse heart, Mouse kidney, Mouse lung, Human adipose tissue, Rat adipose tissue and fetal heart lysates; ICC/IF: Adipocytes and 3T3-L1 cells; IHC-P: human breast tissue.

**General notes**

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

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**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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</table>
| Storage buffer | pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA |
Purity  
Protein A purified

Clonality  
Monoclonal

Clone number  
EPR3579

Isotype  
IgG

Applications

Our Abpromise guarantee covers the use of ab92501 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/5000. Detects a band of approximately 15 kDa (predicted molecular weight: 15 kDa).</td>
<td></td>
</tr>
<tr>
<td>ICC/IF</td>
<td>1/50. For unpurified use at 1/1000.</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/16000. See IHC antigen retrieval protocols. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.</td>
<td></td>
</tr>
</tbody>
</table>

Target

Function  
Lipid transport protein in adipocytes. Binds both long chain fatty acids and retinoic acid. Delivers long chain fatty acids and retinoic acid to their cognate receptors in the nucleus.

Sequence similarities  
Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.

Domain  
Forms a beta-barrel structure that accommodates hydrophobic ligands in its interior.

Cellular localization  
Cytoplasm. Nucleus. Depending on the nature of the ligand, a conformation change exposes a nuclear localization motif and the protein is transported into the nucleus. Subject to constitutive nuclear export.

Images
**All lanes**: Anti-FABP4 antibody [EPR3579] (ab92501) at 1/1000 dilution (Purified)

**Lane 1**: Mouse brown adipose tissue lysates
**Lane 2**: Mouse heart lysates
**Lane 3**: Mouse kidney lysates
**Lane 4**: Mouse lung lysates
**Lane 5**: Human adipose tissue lysates
**Lane 6**: Rat adipose tissue lysates

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size**: 15 kDa
**Observed band size**: 15 kDa

FABP4 is abundantly expressed in adipose tissue and at a lower level in lung, heart, skin, kidney, liver and brain (PMID: 23143994).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast tissue sections labeling FABP4 with Purified ab92501 at 1/16,000 dilution (0.03 µg/ml). Heat mediated antigen retrieval was performed Perform heat mediated antigen retrieval using [ab93684](https://www.abcam.com/ab93684) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
Immunocytochemistry/Immunofluorescence analysis of 3T3-L1 (Mouse embryonic fibroblast) differentiated for 6 days cells labeling FABP4 with Purified ab92501 at 1/50 dilution (9.9 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

FABP4 (green) was detected using FABP4 primary antibody (unpurified ab92501; diluted 1/1000). Alpha tubulin (red) was detected using our mouse monoclonal (ab7291) antibody. Cells were imaged by confocal microscopy, using z-stack for adipocyte-like cells.

All lanes: Anti-FABP4 antibody [EPR3579] (ab92501) at 1/1000 dilution (unpurified)

Lane 1: Human adipose tissue lysate
Lane 2: Human fetal heart lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 15 kDa
Observed band size: 15 kDa
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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