**Product datasheet**

**Anti-FABP4 antibody ab23693**

★★★★★ 2 Abreviews  2 References  2 Images

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-FABP4 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to FABP4</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td><strong>Suitable for</strong>: ICC/IF, WB</td>
</tr>
<tr>
<td>Species reactivity</td>
<td><strong>Reacts with</strong>: Mouse, Rat, Human</td>
</tr>
<tr>
<td></td>
<td><strong>Predicted to work with</strong>: Rabbit, Hamster</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide corresponding to Human FABP4 aa 103-118.</td>
</tr>
<tr>
<td></td>
<td>Sequence: TTIKRKREDKLVVE</td>
</tr>
<tr>
<td>Positive control</td>
<td>Rat brown fat.</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.40</td>
</tr>
<tr>
<td></td>
<td>Preservative: 0.02% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: Tris buffered saline, 50% Glycerol, 0.1% BSA</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A purified</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

**Applications**

Our Abpromise guarantee covers the use of ab23693 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>ICC/IF</td>
<td>⭐⭐⭐⭐⭐️</td>
<td>Use a concentration of 4 μg/ml.</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 2 μg/ml. Detects a band of approximately 15 kDa (predicted molecular weight: 15 kDa).</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**

ab23693 staining FABP4 (pink) in human adipose-derived stem cells for adipogenesis by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes and blocked with 10% serum for 1 hour at 37°C. Samples were incubated with primary antibody (1/200) for 16 hours at 4°C. An Alexa Fluor® 647-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody.

Green - Phalloidin, Blue - DAPI.

**All lanes**: Anti-FABP4 antibody (ab23693) at 2 μg/ml

**Lane 1**: His-tagged recombinant rat ALBP lysate (1ug)
**Lane 2**: rat brown fat (30ug)

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