Product datasheet

Anti-ENO1 antibody ab85086

Overview

Product name: Anti-ENO1 antibody
Description: Rabbit polyclonal to ENO1
Host species: Rabbit

Immunogen: A 16 amino acid peptide from the intermediate residues of human ENO1 (NP_001419).

Positive control: Purchase matching WB positive control: Recombinant human ENO1 protein (Active)

Form: Lyophilized: Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer: Preservative: 0.02% Sodium azide
Constituent: 1% BSA

Purity: Immunogen affinity purified

Purification notes: Purified by peptide affinity column.

Clonality: Polyclonal

Isotype: IgG

Tested Applications & Species

<table>
<thead>
<tr>
<th>Application</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>☑ Human</td>
</tr>
<tr>
<td>WB</td>
<td>☑ Human</td>
</tr>
</tbody>
</table>

See all applications and species data

Properties
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab85086 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>Guaranteed</th>
<th>Predicted</th>
<th>Incompatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tested applications are guaranteed to work and covered by our Abpromise guarantee.</td>
<td>Predicted to work for this combination of applications and species but not guaranteed.</td>
<td>Does not work for this combination of applications and species.</td>
</tr>
</tbody>
</table>

### Application

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
</tbody>
</table>

### Target

#### Function

Multifunctional enzyme that, as well as its role in glycolysis, plays a part in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production.

MBP1 binds to the myc promoter and acts as a transcriptional repressor. May be a tumor suppressor.

#### Tissue specificity

The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons.

#### Pathway

Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 4/5.

#### Sequence similarities

Belongs to the enolase family.

#### Developmental stage

During ontogenesis, there is a transition from the alpha/alpha homodimer to the alpha/beta heterodimer in striated muscle cells, and to the alpha/gamma heterodimer in nerve cells.

#### Post-translational modifications

ISGylated.

#### Cellular localization

Nucleus and Cytoplasm. Cell membrane. Cytoplasm > myofibril > sarcomere > M line. Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form. ENO1 is localized to the M line.
**Western blot** - Anti-ENO1 antibody (ab85086)

**All lanes**: Anti-ENO1 antibody (ab85086) at 1/200 dilution

**Lane 1**: MCF7 cell lysate

**Lane 2**: Jurkat cell lysate

**Predicted band size**: 47 kDa

**Observed band size**: 47 kDa

ab85086, at a 1/100 dilution, staining ENO1 in the cytoplasm and membrane of formalin fixed, paraffin embedded renal tubules by Immunohistochemistry.

**Immunohistochemistry** (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENO1 antibody (ab85086)

ICC/IF image of ab85086 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85086, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Western blot - Anti-ENO1 antibody (ab85086)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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