### Overview

**Product name**  
Anti-ENO1 antibody

**Description**  
Rabbit polyclonal to ENO1

**Host species**  
Rabbit

**Tested applications**  
Suitable for: IHC-Fr, WB, IHC-P, ICC/IF

**Species reactivity**  
Reacts with: Human

**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)

MCF7 cell lysate; Jurkat whole cell lysate (ab7899); Renal tubules tissue.

### Properties

**Form**  
Lyophilised: 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

### Applications

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.
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.

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<th>Abreviews</th>
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<td>IHC-Fr</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 22125622</td>
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<td>IHC-P</td>
<td>1/100.</td>
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<td>ICC/IF</td>
<td>Use a concentration of 1 µg/ml.</td>
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Target

Image 1: 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
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ENO1 antibody (ab85086)

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

Immunocytochemistry/ Immunofluorescence - 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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