

## Product datasheet

### Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] ab189892

Recombinant RabMAb

5 Images

#### Overview

<b>Product name</b>	Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422]
<b>Description</b>	Rabbit monoclonal [EPR18422] to ENO1 + ENO2 + ENO3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human, Recombinant fragment
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human ENO1 full length recombinant protein, Human ENO2 full length recombinant protein, Human ENO3 full length recombinant protein, Human fetal liver lysate, Human fetal heart lysate, Human fetal kidney lysate, Human fetal spleen lysate, Mouse brain lysate, Mouse heart lysate, Mouse kidney lysate, Mouse spleen lysate, Rat brain lysate, Rat heart lysate, Rat spleen lysate, HeLa, Jurkat MCF7 , A431, C6, Raw264.7 and NIH/3T3 whole cell lysates
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18422
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab189892 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

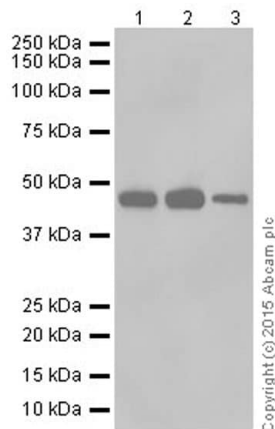
Application	Abreviews	Notes
<b>WB</b>		1/1000. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).

## Target

**Relevance** Enolase 1 is a 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. Enolase 2 has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium-dependent manner, to cultured neocortical neurons and promotes cell survival. Enolase 3 appears to have a function in striated muscle development and regeneration.

**Cellular localization** ENO1: Cytoplasm. Cell membrane. Cytoplasm, myofibril, sarcomere, M-band. Note: Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form. ENO1 is localized to the M-band. ENO2: Cytoplasm. Cell membrane. Note: Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form ENO3: Cytoplasm. Note: Localized to the Z line. Some colocalization with CKM at M-band.

## Images



Western blot - Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] (ab189892)

**All lanes :** Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] (ab189892) at 1/5000 dilution

**Lane 1 :** Human ENO1 full length recombinant protein

**Lane 2 :** Human ENO2 full length recombinant protein

**Lane 3 :** Human ENO3 full length recombinant protein

Lysates/proteins at 0.02 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 47 kDa

**Observed band size:** 47 kDa

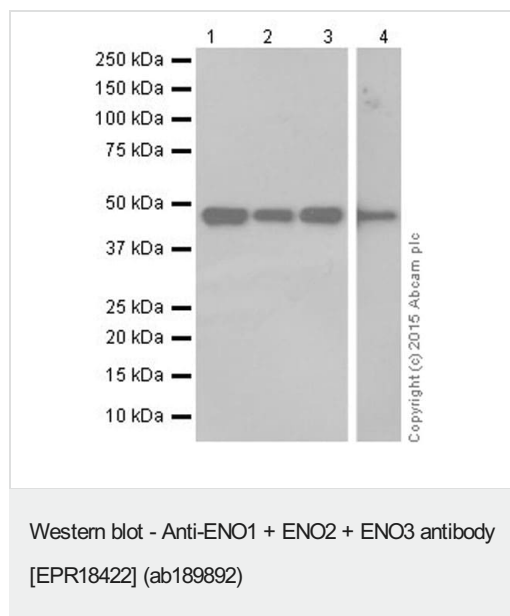
**Exposure time:** 5 seconds

Blocking and diluting buffer 5% NFDM /TBST.

Human ENO1 full length recombinant protein (Cat#:[ab89248](#)) containing aa1-434.

Human ENO2 full length recombinant protein containing aa1-434 with a His-Tag®.

Human ENO3 full length recombinant protein (Cat#:[ab113127](#)) containing aa1-434 with a His-Tag®. Human ENO2 full length recombinant protein was made in-house.



**All lanes :** Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] (ab189892) at 1/5000 dilution

**Lane 1 :** Human fetal liver tissue lysate

**Lane 2 :** Human fetal heart tissue lysate

**Lane 3 :** Human fetal kidney tissue lysate

**Lane 4 :** Human fetal spleen tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Developed using the ECL technique.

**Predicted band size:** 47 kDa

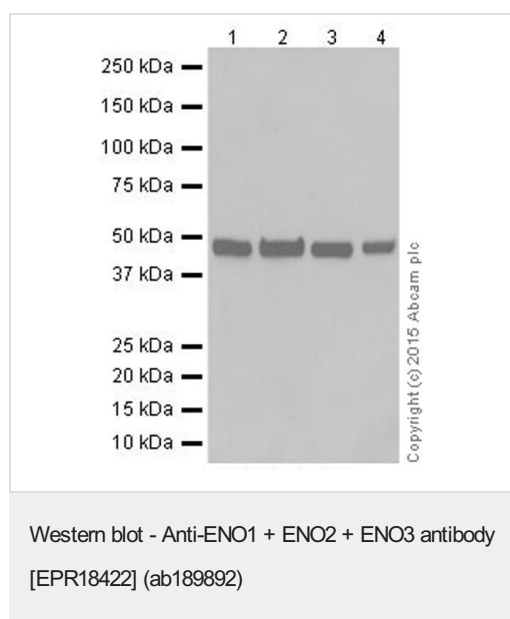
**Observed band size:** 47 kDa

**Exposure time:** 5 seconds

Blocking and diluting buffer 5% NFDM /TBST.

Exposure time - Lane 1,2 and 3:5 seconds;

Lane 4: 30 seconds



**All lanes :** Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] (ab189892) at 1/5000 dilution

**Lane 1 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 2 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

**Lane 3 :** MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

**Lane 4 :** A431 (Human epidermoid carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

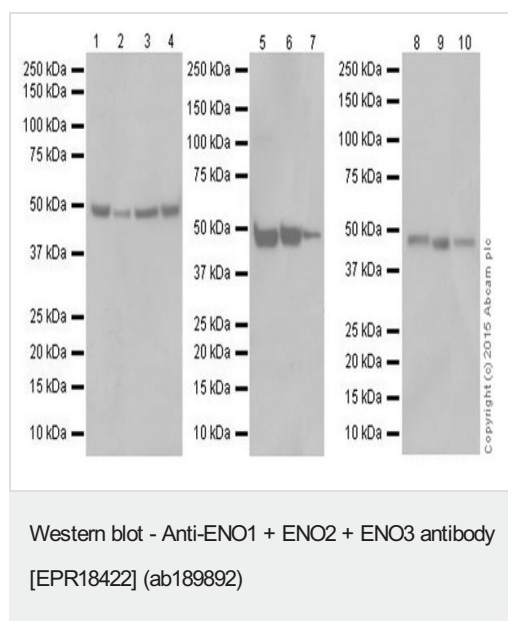
Developed using the ECL technique.

**Predicted band size:** 47 kDa

**Observed band size:** 47 kDa

**Exposure time:** 3 seconds

Blocking and diluting buffer was 5% NFDM /TBST.



**Lanes 1-7 :** Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] (ab189892) at 1/5000 dilution

**Lanes 8-10 :** Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422] (ab189892) at 1/1000 dilution

**Lane 1 :** Mouse brain lysate

**Lane 2 :** Mouse heart lysate

**Lane 3 :** Mouse kidney lysate

**Lane 4 :** Mouse spleen lysate

**Lane 5 :** Rat brain lysate

**Lane 6 :** Rat heart lysate

**Lane 7 :** Rat spleen lysate

**Lane 8 :** C6 (Rat glial tumor cell line) whole cell lysate

**Lane 9 :** Raw264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

**Lane 10 :** NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 47 kDa

**Observed band size:** 47 kDa

**Exposure time:** 1 second

Blocking and diluting buffer was 5% NFDM /TBST.

Exposure time - Lane 1-4 and 8-10: 1 second;

Lane 5-7: 3 seconds;

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-ENO1 + ENO2 + ENO3 antibody [EPR18422]  
(ab189892)

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

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