

ENO1 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AW5060

Specification

ENO1 Antibody - Product Information

Application	WB, IHC-P,E
Primary Accession	P06733
Reactivity	Human, Mouse
Predicted	Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=47;M=47;Rat=47 KDa
Isotype	IgG2b,k
Antigen Source	Human

ENO1 Antibody - Additional Information

Gene ID 2023

Antigen Region
1-415

Other Names

ENO1;ENO1L1; MBPB1; MPB1; Alpha-enolase; Alpha-enolase; 2-phospho-D-glycerate hydro-lyase; Alpha-enolase; C-myc promoter-binding protein; Alpha-enolase; Enolase 1; Alpha-enolase; MBP-1; Alpha-enolase; MPB-1; Alpha-enolase; Non-neural enolase; Alpha-enolase; Phosphopyruvate hydratase; Alpha-enolase; Plasminogen-binding protein

Dilution

WB~~1:1000
IHC-P~~1:25

Target/Specificity

Purified His-tagged ENO1 protein was used to produced this monoclonal antibody.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ENO1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ENO1 Antibody - Protein Information

Name ENO1**Synonyms** ENO1L1, MBPB1, MPB1**Function**

Glycolytic enzyme that catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate (PubMed: [1369209](http://www.uniprot.org/citations/1369209), PubMed: [29775581](http://www.uniprot.org/citations/29775581)). In addition to glycolysis, involved in various processes such as growth control, hypoxia tolerance and allergic responses (PubMed: [10802057](http://www.uniprot.org/citations/10802057), PubMed: [12666133](http://www.uniprot.org/citations/12666133), PubMed: [2005901](http://www.uniprot.org/citations/2005901), PubMed: [29775581](http://www.uniprot.org/citations/29775581)). 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 (PubMed: [12666133](http://www.uniprot.org/citations/12666133)). Stimulates immunoglobulin production (PubMed: [1369209](http://www.uniprot.org/citations/1369209)).

Cellular Location

Cytoplasm. Cell membrane. Cytoplasm, myofibril, sarcomere, M line. Note=Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form. ENO1 is localized to the M line

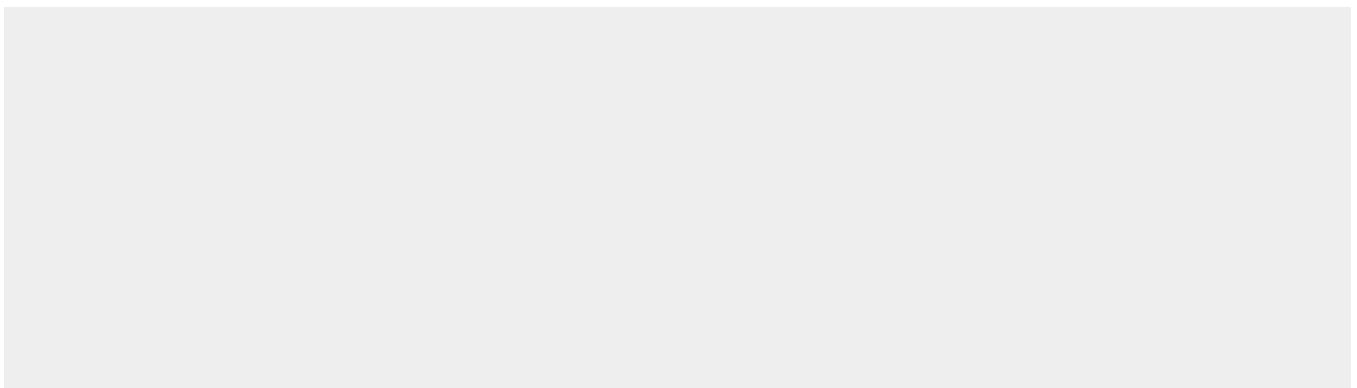
Tissue Location

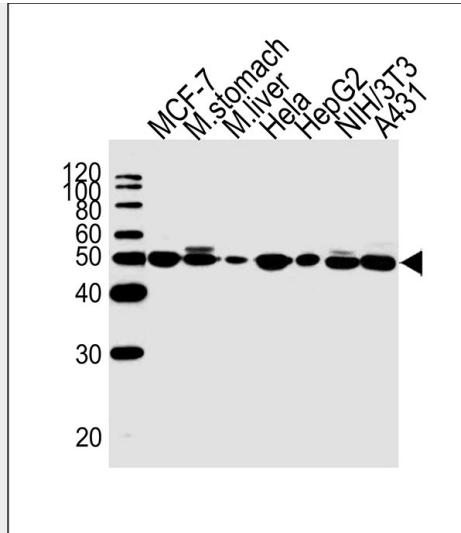
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

ENO1 Antibody - Protocols

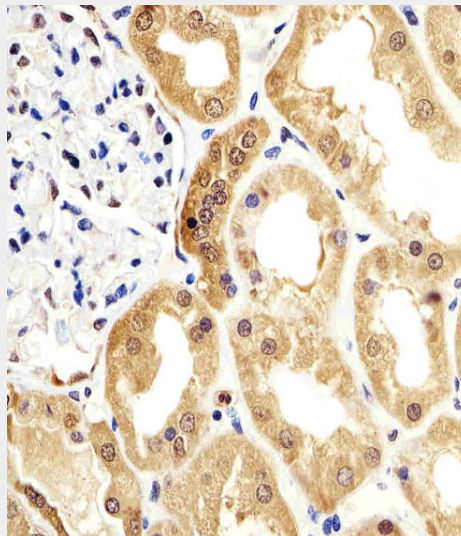
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ENO1 Antibody - Images



Western blot analysis of lysates from MCF-7 cell line, mouse stomach, mouse liver tissue lysate, Hela, HepG2, NIH/3T3, A431 cell line (from left to right), using ENO1 Antibody (Cat. #AW5060). AW5060 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Immunohistochemical analysis of paraffin-embedded H. kidney section using ENO1 Antibody (Cat#AW5060). AW5060 was diluted at 1:25 dilution. An undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ENO1 Antibody - Background

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.

ENO1 Antibody - References

Giallongo A., et al. Proc. Natl. Acad. Sci. U.S.A. 83:6741-6745(1986).

Giallongo A., et al. Eur. J. Biochem. 190:567-573(1990).

Ray R., et al. Mol. Cell. Biol. 11:2154-2161(1991).

Walter M., et al. J. Autoimmun. 8:931-945(1995).

Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.