10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ENO1 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AW5060

Product Information

Application	IHC-P, WB
Primary Accession	P06733
Reactivity	Human, Mouse
Predicted	Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	47169
Isotype	IgG2b,k
Antigen Source	Human

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	IHC-P~~1:100~500 WB~~1:1000
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.

Protein Information

Name	ENO1 (HGNC:3350)

Synonyms	ENO1L1, MBPB1, MPB1
Function	Enolase that catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate in glycolysis and the reverse reaction in gluconeogenesis (PubMed:1369209, PubMed:29775581). Also involved in various processes such as growth control, hypoxia tolerance and allergic responses (PubMed:10802057, PubMed:12666133, PubMed:2005901, PubMed: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). Stimulates immunoglobulin production (PubMed: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

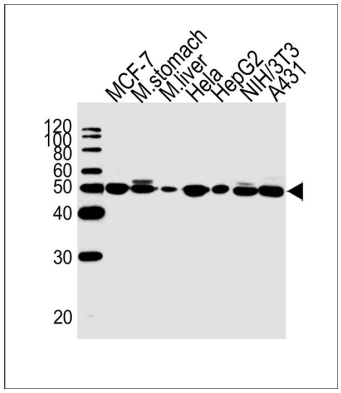
Background

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.

References

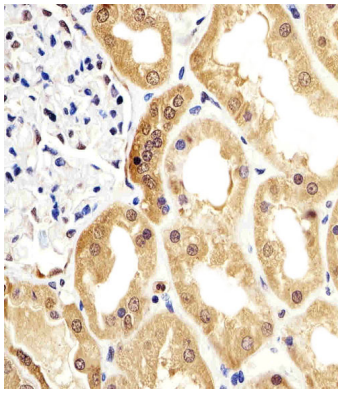
Giallongo A., et al. Proc. Natl. Acad. Sci. U.S.A. 83:6741-6745(1986).
Giallongo A., et al. Eur. J. Biochem. 190:567-573(1990).
Ray R., et al. Mol. Cell. Biol. 11:2154-2161(1991).
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Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

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. kideny section using ENO1 Antibody(Cat#AW5060).



AW5060 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.