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ENO1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ENO1.
Catalog # AT1908a

Product Information

Application	WB, IHC, IF, IP, E
Primary Accession	P06733
Other Accession	BC022545
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	8G8
Calculated MW	47169

Additional Information

Gene ID	2023
Other Names	Alpha-enolase, 2-phospho-D-glycerate hydro-lyase, C-myc promoter-binding protein, Enolase 1, MBP-1, MPB-1, Non-neural enolase, NNE, Phosphopyruvate hydratase, Plasminogen-binding protein, ENO1, ENO1L1, MBPB1, MPB1
Target/Specificity	ENO1 (AAH22545, 1 a.a. ~ 434 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ENO1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

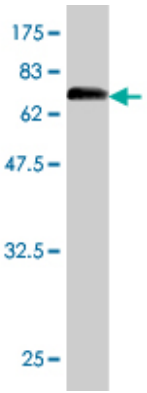
Background

This gene encodes one of three enolase isoenzymes found in mammals; it encodes alpha-enolase, a homodimeric soluble enzyme, and also encodes a shorter monomeric structural lens protein, tau-crystallin. The two proteins are made from the same message. The full length protein, the isoenzyme, is found in the cytoplasm. The shorter protein is produced from an alternative translation start, is localized to the nucleus, and has been found to bind to an element in the c-myc promoter. A pseudogene has been identified that is located on the other arm of the same chromosome.

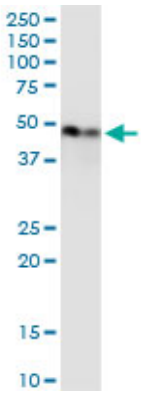
References

1.The interaction with caveolae-associated proteins regulates enolase-1 subcellular localization.Zakrzewicz D, Didiasova M, Zakrzewicz A, Hocke AC, Uhle F, Markart P, Preissner KT, Wygrecka MBiochem J. 2014 Jun 1;460(2):295-307. doi: 10.1042/BJ20130945.2.Overexpression of alpha-enolase correlates with poor survival in canine mammary carcinoma.Chu PY, Hsu NC, Liao AT, Shih NY, Hou MF, Liu CH.BMC Vet Res. 2011 Oct 21;7:62.3.Systematic proteomic analysis of human hepotacellular carcinoma cells reveals molecular pathways and networks involved in metastasis.Yu Y, Shen H, Yu H, Zhong F, Zhang Y, Zhang C, Zhao J, Li H, Chen J, Liu Y, Yang P.Mol Biosyst. 2011 Jun;7(6):1908-16. Epub 2011 Apr 6.4.Diagnostic Detection of Human Lung Cancer-Associated Antigen Using a Gold Nanoparticle-Based Electrochemical Immunosensor.Ho JA, Chang HC, Shih NY, Wu LC, Chang YF, Chen CC, Chou C.Anal Chem. 2010 Jun 17. [Epub ahead of print]5.Comparative proteomic analysis of Barrett's metaplasia and esophageal adenocarcinomas using 2-D liquid mass mapping.Zhao J, Chang AC, Li C, Shedden KA, Thomas DG, Misek DE, Manoharan AP, Giordano TJ, Beer DG, Lubman DM.Mol Cell Proteomics. 2007 Jun;6(6):987-99. Epub 2006 Jul 8.

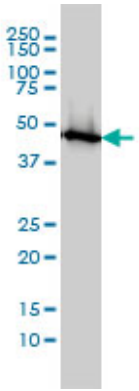
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (73.48 KDa) .

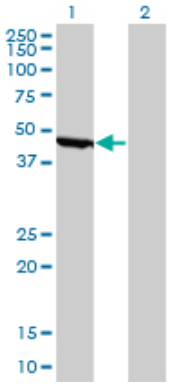


ENO1 monoclonal antibody (M01), clone 8G8. Western Blot analysis of ENO1 expression in human colon.

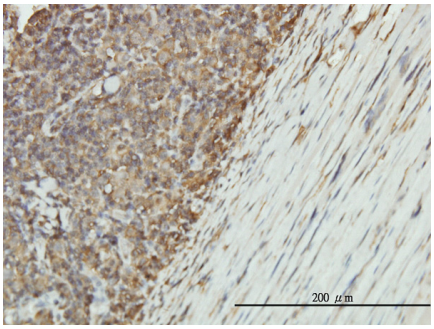


ENO1 monoclonal antibody (M01), clone 8G8 Western Blot analysis of ENO1 expression in MCF-7 ((Cat # AT1908a)

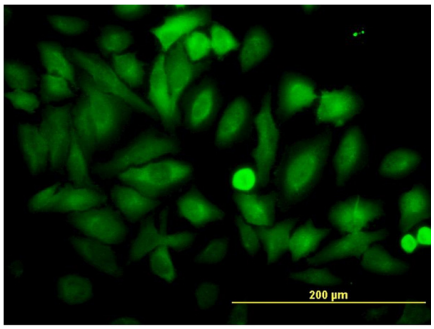
Western Blot analysis of ENO1 expression in transfected 293T cell line by ENO1 monoclonal antibody (M01), clone 8G8.



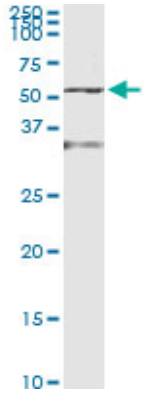
Lane 1: ENO1 transfected lysate(47 KDa).
Lane 2: Non-transfected lysate.



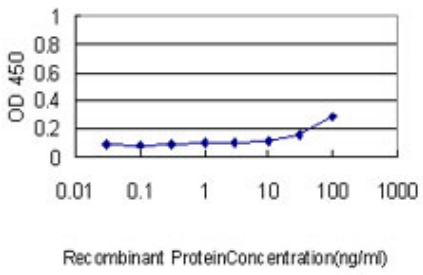
Immunoperoxidase of monoclonal antibody to ENO1 on formalin-fixed paraffin-embedded human lymphoma tissue. [antibody concentration 1 ug/ml]



Immunofluorescence of monoclonal antibody to ENO1 on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of ENO1 transfected lysate using anti-ENO1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with ENO1 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged ENO1 is approximately 0.3ng/ml as a capture antibody.

Citations

- An Integrated Gene Expression Landscape Profiling Approach to Identify Lung Tumor Endothelial Cell Heterogeneity and Angiogenic Candidates