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ENO3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ENO3.
Catalog # AT1911a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P13929
Other Accession	NM_001976
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5D1
Calculated MW	46987

Additional Information

Gene ID	2027
Other Names	Beta-enolase, 2-phospho-D-glycerate hydro-lyase, Enolase 3, Muscle-specific enolase, MSE, Skeletal muscle enolase, ENO3
Target/Specificity	ENO3 (NP_001967, 228 a.a. ~ 277 a.a) partial 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 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	ENO3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

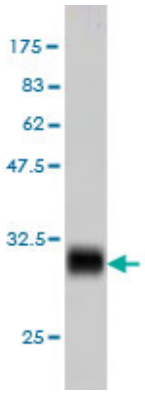
This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme is found in skeletal muscle cells in the adult where it may play a role in muscle development and regeneration. A switch from alpha enolase to beta enolase occurs in muscle tissue during development in rodents. Mutations in this gene have be associated glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been described.

References

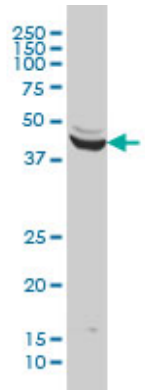
1.The time course of the adaptations of human muscle proteome to bed rest and the underlying

mechanisms.Brocca L, Cannavino J, Coletto L, Biolo G, Sandri M, Bottinelli R, Pellegrino MA.J Physiol. 2012 Aug 6.2.Functional analysis of beef tenderness.Guillemin N, Bonnet M, Jurie C, Picard B.J Proteomics. 2011 Aug 9. [Epub ahead of print]3.Myomegalin is a novel A-kinase anchoring protein involved in the phosphorylation of cardiac myosin binding protein C.Uys GM, Ramburan A, Loos B, Kinnear CJ, Korkie LJ, Mouton J, Riedemann J, Moolman-Smook JC.BMC Cell Biol. 2011 May 10;12:18.4.Proteome dynamics during contractile and metabolic differentiation of bovine foetal muscle.Chaze T, Meunier B, Chambon C, Jurie C, Picard B.Animal (2009) doi:10.1017 /S1751731 1090043155.Identification of alpha-Enolase as an Autoantigen in Lung Cancer: Its Overexpression Is Associated with Clinical Outcomes.Chang GC, Liu KJ, Hsieh CL, Hu TS, Charoenfuprasert S, Liu HK, Luh KT, Hsu LH, Wu CW, Ting CC, Chen CY, Chen KC, Yang TY, Chou TY, Wang WH, Whang-Peng J, Shih NY.Clin Cancer Res. 2006 Oct 1;12(19):5746-54.

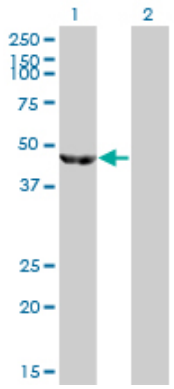
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (31.24 KDa) .



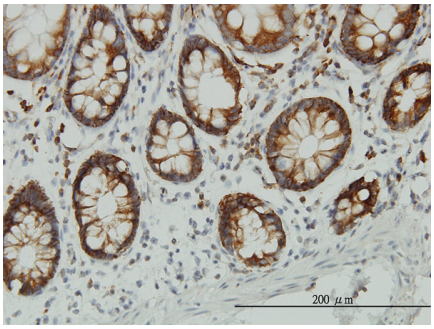
ENO3 monoclonal antibody (M01), clone 5D1 Western Blot analysis of ENO3 expression in HeLa ((Cat # AT1911a)

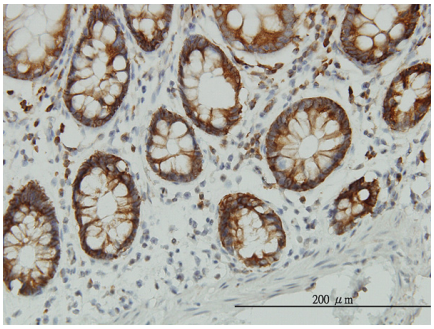


Western Blot analysis of ENO3 expression in transfected 293T cell line by ENO3 monoclonal antibody (M01), clone 5D1.

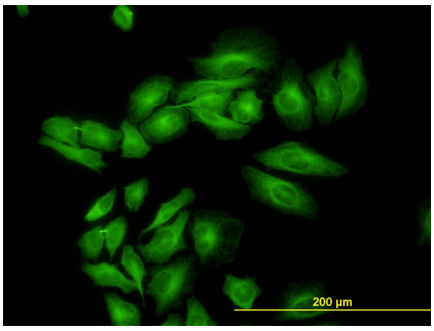
Lane 1: ENO3 transfected lysate(46.9 KDa).
Lane 2: Non-transfected lysate.

Immunoperoxidase of monoclonal antibody to ENO3 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1.5 ug/ml]

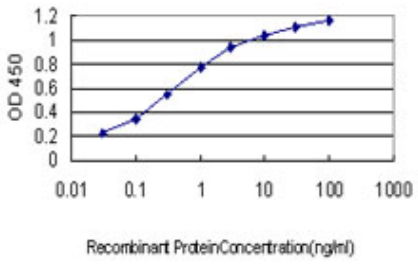




Immunoperoxidase of monoclonal antibody to ENO3 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to ENO3 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged ENO3 is approximately 0.03ng/ml as a capture antibody.

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