

Mouse anti-Human ENO3 Monoclonal Antibody | anti-ENO3 antibody

ENO3 (Enolase 3, 2-phospho-D-glycerate Hydro-lyase, beta-Enolase, Muscle-specific Enolase, MSE, Skeletal Muscle Enolase) (FITC)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA25090	Mouse	Human	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ENO3; Monoclonal Antibody; ENO3 (Enolase 3; 2-phospho-D-glycerate Hydro-lyase; beta-Enolase; Muscle-specific Enolase; MSE; Skeletal Muscle Enolase) (FITC); anti-ENO3 antibody

PRODUCT SPECIFICATIONS

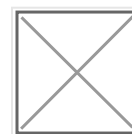
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	5D1
Specificity	Recognizes human ENO3.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Applicable Applications for anti-ENO3 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IF: 10ug/ml Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa228-277 from human ENO3 (NP_001967) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KTAIQAGYPDKVVIGMDVAASEFYRNGKYDLDFKSPDDPARHITGEKLG
Conjugate	FITC
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES



WB (Western Blot)

Western blot analysis of ENO3 over-expressed 293 cell line, cotransfected with ENO3 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with ENO3 monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.



Application Data

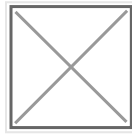
Detection limit for recombinant GST tagged ENO3 is ~0.03ng/ml as a capture antibody.

**IF (Immunofluorescence)**

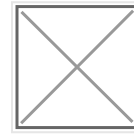
Immunofluorescence of monoclonal antibody to ENO3 on HeLa cell. [antibody concentration 10ug/ml].

**IHC (Immunohistochemistry)**

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

**IHC (Immunohistochemistry)**

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

**WB (Western Blot)**

Western Blot analysis of ENO3 expression in transfected 293T cell line by ENO3 monoclonal antibody. Lane 1: ENO3 transfected lysate (46.9kD). Lane 2: Non-transfected lysate.

ADDITIONAL INFORMATION

Product Categories/Family for anti-ENO3 antibody	Antibodies ; Enzymes
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. Guillemain N, Bonnet M, Jurie C, Picard B. J Proteomics. 2011 Aug 9. 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/S1751731109004315. 5. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	301897469
NCBI GeneID	2027
NCBI Accession #	NP_001967
NCBI GenBank Nucleotide #	NM_001976
UniProt Accession #	P13929
Molecular Weight	47kDa
NCBI Official Full Name	beta-enolase isoform 1
NCBI Official Synonym Full Names	enolase 3
NCBI Official Symbol	ENO3
NCBI Official Synonym Symbols	MSE; GSD13
NCBI Protein Information	beta-enolase
UniProt Protein Name	Beta-enolase
UniProt Gene Name	ENO3
UniProt Synonym Gene Names	MSE
UniProt Entry Name	ENOB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/eno3-antibody-clone-5d1-immunofluorescence-immunohistochemistry-western-blot-elisa/25090>