

Rabbit ENOB Polyclonal Antibody | anti-ENO3 antibody

ENOB Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28761	Rabbit	Human, Mouse, Rat (Predicted Reactivity: Bovine, Pig)	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

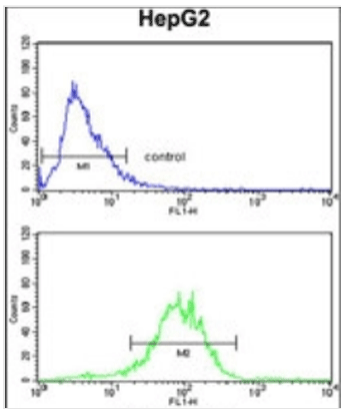
PRODUCT SYNONYMS

ENOB; Polyclonal Antibody; ENOB Antibody (Center); Beta-enolase; 2-phospho-D-glycerate hydro-lyase; Enolase 3; Muscle-specific enolase; MSE; Skeletal muscle enolase; ENO3; anti-ENO3 antibody

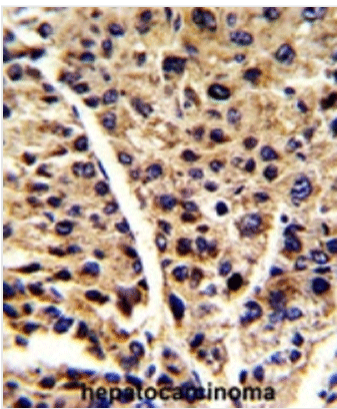
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat (Predicted Reactivity: Bovine, Pig)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ENOB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 237-264 amino acids from the Central region of human ENOB.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	237-264
Sequence Length	391
Applicable Applications for anti-ENO3 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB~~1:1000 IHC-P~~1:50~100 FC~~1:10~50
Function	Glycolytic enzyme that catalyzes the conversion of 2- phosphoglycerate to phosphoenolpyruvate. Appears to have a function in striated muscle development and regeneration.
Cellular Location	Cytoplasm. Note=Localized to the Z line. Some colocalization with CKM at M-band (By similarity)
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.
Preparation and 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.

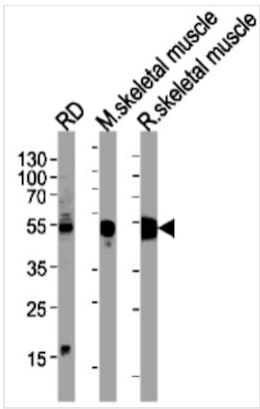
IMAGES



FCM (Flow Cytometry)
ENOB Antibody (Center) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ENOB Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
ENOB Antibody (Center) western blot analysis in RD cell line and mouse skeletal muscle, rat skeletal muscle lysates (35ug/lane). This demonstrates the ENOB antibody detected the ENOB protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ENO3 antibody	ENOB is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in skeletal muscle cells in the adult. A switch from alpha enolase to beta enolase occurs in muscle tissue during development in rodents. Mutations in its gene can be associated with metabolic myopathies that may result from decreased stability of the enzyme.
Product Categories/Family for anti-ENO3 antibody	Crown Antibodies; Cancer; Metabolism; Signal Transduction
References	Aurino,S., Acta Myol 27, 90-97 (2008) Giallongo,A., Eur. J. Biochem. 214 (2), 367-374 (1993)

NCBI AND UNIPROT INFORMATION

NCBI GI #	301897479
NCBI GeneID	2027
NCBI Accession #	NP_001180432.1; NP_001967.3; NP_443739.3
NCBI GenBank Nucleotide #	NM_001193503.1
UniProt Accession #	P13929; Q96AE2; B4DUI6; B4DUM6; D3DTL2; E7ENK8

NCBI Official Full Name	beta-enolase isoform 2
NCBI Official Synonym Full Names	enolase 3 (beta, muscle)
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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