

Rabbit ENOA Polyclonal Antibody | anti-ENOA antibody

ENOA Antibody (N-term)

CATALOG # AAA28805	HOST Rabbit	REACTIVITY Human, Mouse, Rat Predicted: Bovine, Monkey	APPLICATIONS Immunofluorescence, Western Blot, Flow Cytometry, Functional Assay, ELISA
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PRODUCT SYNONYMS

ENOA; Polyclonal Antibody; ENOA Antibody (N-term); ENO1; ENO1L1; MBPB1; MPB1; Alpha-enolase; 2-phospho-D-glycerate hydro-lyase; C-myc promoter-binding protein; Enolase 1; MBP-1; MPB-1; Non-neural enolase; Phosphopyruvate hydratase; Plasminogen-binding protein; anti-ENOA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Bovine, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	This ENOA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-60 amino acids from the N-terminal region of human ENOA.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
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	33-60
Applicable Applications for anti-ENOA antibody	IF (Immunofluorescence), WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Application Notes	IF~1:10-50 WB~~1:1000 FC~1:10~50
Function	Glycolytic enzyme the catalyzes the conversion of 2- phosphoglycerate to phosphoenolpyruvate (PubMed: 29775581 , PubMed: 1369209). In addition to glycolysis, involved in various processes such as growth control, hypoxia tolerance and allergic responses (PubMed: 2005901 , PubMed: 10802057 , PubMed: 12666133 , 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.
Antigen Source	Human
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)

ENOA Antibody (N-term) (Catalog Number: AAA28805) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IF (Immunofluorescence)

Fluorescent confocal image of Hela cell stained with ENOA Antibody (N-term) (Catalog Number: AAA28805). Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ENOA primary antibody (1:25, 1 h at 37 degree C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). ENOA immunoreactivity is localized to Cytoplasm and Nucleus significantly.



WB (Western Blot)

Western blot analysis of lysates from mouse brain tissue, mouse NIH/3T3, U-251 MG, mouse C2C12 cell line (from left to right), using ENOA Antibody (N-term) (Catalog Number: AAA28805). It was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-ENOA antibody	Background: ENO1 is one of three enolase isoenzymes found in mammals; the protein alpha-enolase, a homodimeric soluble enzyme, and is also 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
References	Cappello,P., Int. J. Cancer 125 (3), 639-648 (2009). Wygrecka,M., Blood 113 (22), 5588-5598 (2009).

NCBI AND UNIPROT INFORMATION

NCBI GI #	319996655
NCBI GeneID	2023
NCBI Accession #	NP_001188412.1; NP_001419.1
NCBI GenBank Nucleotide #	NP_001188412.1
UniProt Accession #	P06733; Q4R5L2; Q9XSJ4
Molecular Weight	Calculated MW Human = 47, 37; Mouse = 47; Rat = 47 KDa
NCBI Official Full Name	c-myc promoter-binding protein-1 isoform MBP-1
NCBI Official Synonym Full Names	enolase 1
NCBI Official Symbol	ENO1
NCBI Official Synonym Symbols	NNE; PPH; MPB1; ENO1L1; HEL-S-17
NCBI Protein Information	alpha-enolase; c-myc promoter-binding protein-1
UniProt Protein Name	Alpha-enolase
UniProt Gene Name	ENO1
UniProt Synonym Gene Names	ENO1L1; MBPB1; MPB1; NNE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/enoa-antibody-immunofluorescence-western-blot-flow-cytometry-elisa/28805>