

Rabbit ENO1 Polyclonal Antibody | anti-ENO1 antibody

Anti-ENO1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127044	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

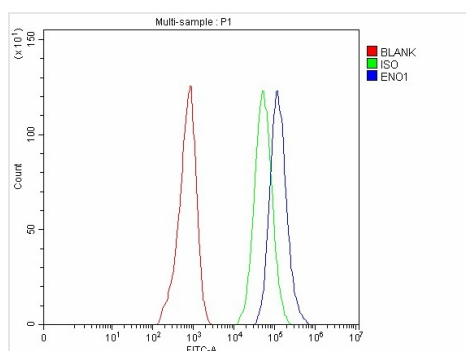
PRODUCT SYNONYMS

ENO1; Polyclonal Antibody; Anti-ENO1 Antibody Picoband; anti-ENO1 antibody

PRODUCT SPECIFICATIONS

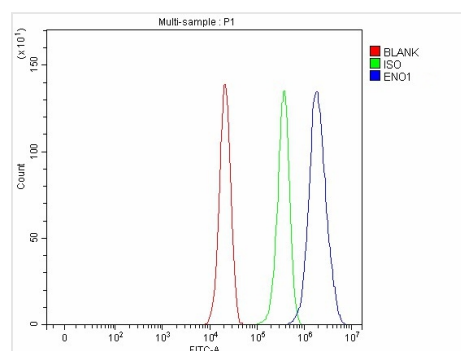
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ENO1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ENO1.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



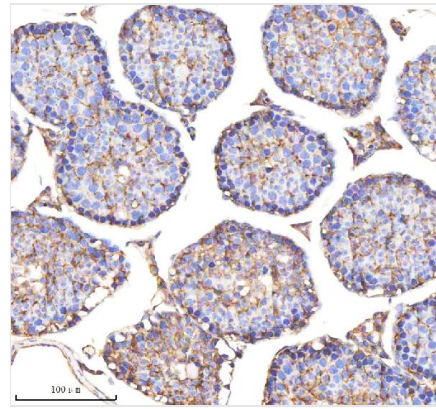
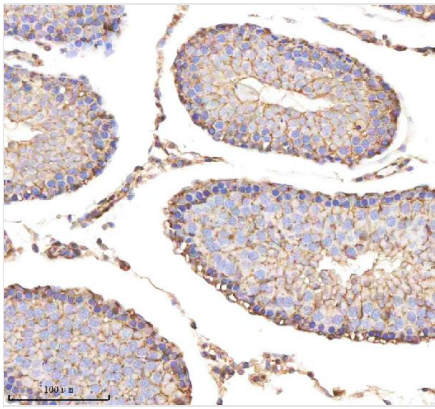
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HeLa cells using anti-ENO1 antibody (AAA127044). Overlay histogram showing HeLa cells stained with AAA127044 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ENO1 Antibody (AAA127044, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of A549 cells using anti-ENO1 antibody (AAA127044). Overlay histogram showing A549 cells stained with AAA127044 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ENO1 Antibody (AAA127044, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

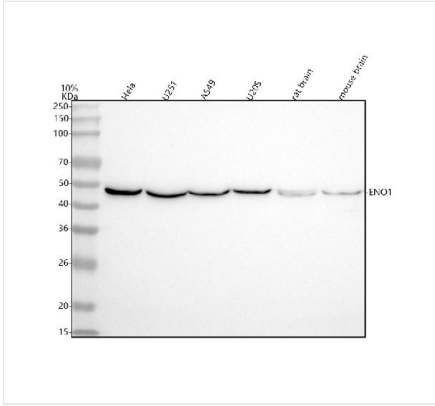


IHC (Immunohistochemistry)

Figure 3. IHC analysis of ENO1 using anti-ENO1 antibody (AAA127044). ENO1 was detected in a paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ENO1 Antibody (AAA127044) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

IHC (Immunohistochemistry)

Figure 2. IHC analysis of ENO1 using anti-ENO1 antibody (AAA127044). ENO1 was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ENO1 Antibody (AAA127044) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ENO1 using anti-ENO1 antibody (AAA127044). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human U2OS whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ENO1 antigen affinity purified polyclonal antibody (#AAA127044) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ENO1 at approximately 47 kDa. The expected band size for ENO1 is at 47 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ENO1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ENO1 antibody	Primary Antibodies

References	1. Comings, D. E. Evidence for ancient tetraploidy and conservation of linkage groups in mammalian chromosomes. Nature 238: 455-457, 1972.2. D'Ancona, G. G., Chern, C. J., Benn, P., Croce, C. M. Assignment of the human gene for enolase 1 to region pter-p36 of chromosome 1. Cytogenet. Cell Genet. 18: 327-332, 1977.3. D'Ancona, G. G., Croce, C. M. Assignment of the gene for enolase to mouse chromosome 4 using somatic cell hybrids. Cytogenet. Cell Genet. 19: 1-6, 1977.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	319996655
NCBI GeneID	2023
NCBI Accession #	NP_001188412.1
NCBI GenBank Nucleotide #	NM_001201483.1
UniProt Accession #	P06733; P22712; Q16704; Q4TUS4; Q53FT9; Q53HR3; Q658M5; Q6GMP2; Q71V37; Q7Z3V6; Q8WU71; B2RD59
Molecular Weight	434 (341)
NCBI Official Full Name	c-myc promoter-binding protein-1 isoform MBP-1
NCBI Official Synonym Full Names	enolase 1, (alpha)
NCBI Official Symbol	ENO1
NCBI Official Synonym Symbols	NNE; PPH; MPB1; ENO1L1
NCBI Protein Information	alpha-enolase; c-myc promoter-binding protein-1; enolase-alpha; tau-crystallin; non-neural enolase; alpha enolase like 1; phosphopyruvate hydratase; plasminogen-binding protein; MYC promoter-binding protein 1; 2-phospho-D-glycerate hydro-lyase
UniProt Protein Name	Alpha-enolase
UniProt Gene Name	ENO1
UniProt Synonym Gene Names	ENO1L1; MBPB1; MPB1; NNE
UniProt Entry Name	ENOA_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.