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ENO1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5277

Specification

ENO1 Antibody (C-term) - Product Information

Application	**IF, IHC-P, FC, WB,E**
Primary Accession	P06733
Other Accession	Q4R5L2
Reactivity	**Human, Mouse**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=47,37;M=47;Rat=47 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

ENO1 Antibody (C-term) - Additional Information

Gene ID 2023

Antigen Region
405-434

Other Names
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

Dilution
IF~~1:10~50
IHC-P~~1:10~50
FC~~1:10~50
WB~~1:1000

Target/Specificity
This ENOA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 405-434 amino acids from the C-terminal region of human ENOA.

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.

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.

Precautions
ENO1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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ENO1 Antibody (C-term) - Protein Information

Name ENO1

Synonyms ENO1L1, MBPB1, MPB1

Function
Glycolytic enzyme the catalyzes the conversion of 2- phosphoglycerate to phosphoenolpyruvate (PubMed:1369209, PubMed:29775581). In addition to glycolysis, involved in various processes such as growth control, hypoxia tolerance and allergic responses (PubMed:10802057, PubMed:12666133, PubMed:2005901, 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

ENO1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ENO1 Antibody (C-term) - Images

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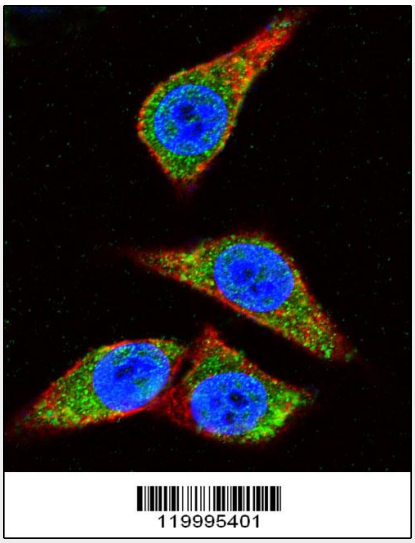
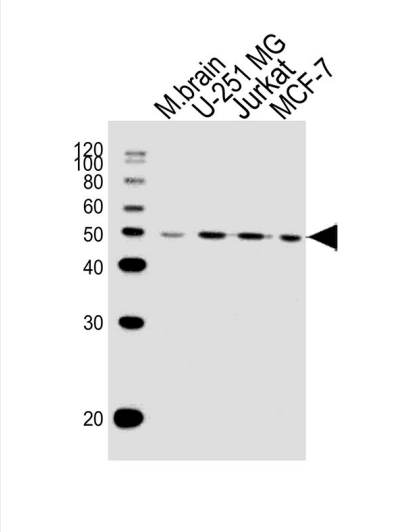


Confocal immunofluorescent analysis of ENO1 Antibody (C-term)(Cat#AW5277) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of lysates from mouse brain tissue,U-251 MG,Jurkat,MCF-7 cell line (from left to right), using ENO1 Antibody (C-term)(Cat. #AW5277). AW5277 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.

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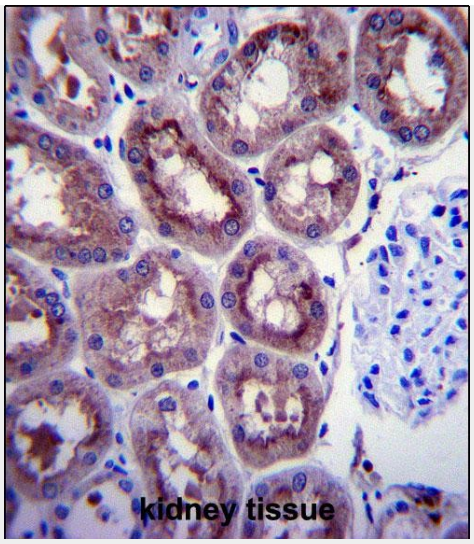
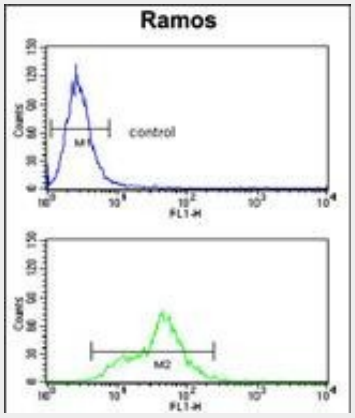


ENO1 Antibody (C-term) (Cat. #AW5277)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ENO1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ENO1 Antibody (C-term) (Cat. #AW5277) flow cytometry analysis of Ramos cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ENO1 Antibody (C-term) - 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.

ENO1 Antibody (C-term) - References

Cappello,P., Int. J. Cancer 125 (3), 639-648 (2009)
Wygrecka,M., Blood 113 (22), 5588-5598 (2009)