

KD-Validated Anti-Enolase 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1301

Specification

KD-Validated Anti-Enolase 1 Rabbit Monoclonal Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P06733
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 47 kDa; observed, 47 kDa
Gene Name	ENO1
Aliases	ENO1; Enolase 1; Alpha-Enolase; ENO1L1; MBP-1; MPB1; PPH; ENO1 Intronic Transcript 1 (Non-Protein Coding); 2-Phospho-D-Glycerate Hydro-Lyase; Plasminogen-Binding Protein; ENO1 Intronic Transcript 1; Phosphopyruvate Hydratase; Enolase 1, (Alpha); Non-Neural Enolase; EC 4.2.1.11; ENO1-IT1; NNE; Epididymis Secretory Protein Li 17; C-Myc Promoter-Binding Protein-1; MYC Promoter-Binding Protein 1; C-Myc Promoter-Binding Protein; Alpha Enolase Like 1; Tau-Crystallin; Enolase-Alpha; HEL-S-17; EC 4.2.1; MBPB1; MPB-1 A synthesized peptide derived from human ENO1
Immunogen	

KD-Validated Anti-Enolase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **2023**

Other Names

Alpha-enolase, 4.2.1.11, 2-phospho-D-glycerate hydro-lyase, C-myc promoter-binding protein, Enolase 1, MBP-1, MPB-1, Non-neural enolase, NNE, Phosphopyruvate hydratase, Plasminogen-binding protein, ENO1, ENO1L1, MBPB1, MPB1

KD-Validated Anti-Enolase 1 Rabbit Monoclonal Antibody - Protein Information

Name ENO1 ([HGNC:3350](#))

Synonyms ENO1L1, MBPB1, MPB1

Function

Enolase that catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate in glycolysis and the reverse reaction in gluconeogenesis (PubMed:1369209, PubMed:<a

[29775581](http://www.uniprot.org/citations/29775581)). Also involved in various processes such as growth control, hypoxia tolerance and allergic responses (PubMed:[10802057](http://www.uniprot.org/citations/10802057), PubMed:[12666133](http://www.uniprot.org/citations/12666133), PubMed:[2005901](http://www.uniprot.org/citations/2005901), PubMed:[29775581](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12666133)). Stimulates immunoglobulin production (PubMed:[1369209](http://www.uniprot.org/citations/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

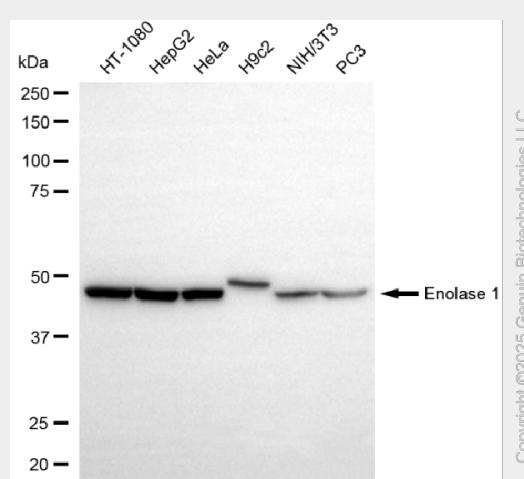
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

KD-Validated Anti-Enolase 1 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

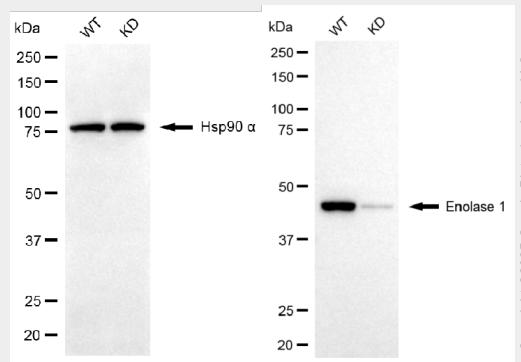
KD-Validated Anti-Enolase 1 Rabbit Monoclonal Antibody - Images



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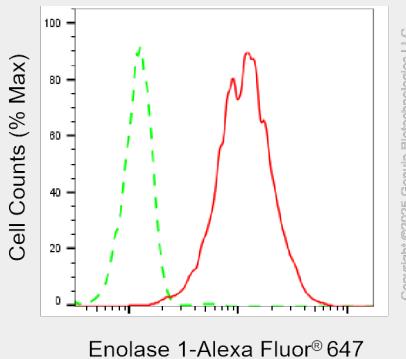
Western blotting analysis using anti-enolase 1 antibody (Cat#AGI1301). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with

anti-enolase 1 antibody (Cat#AGI1301, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



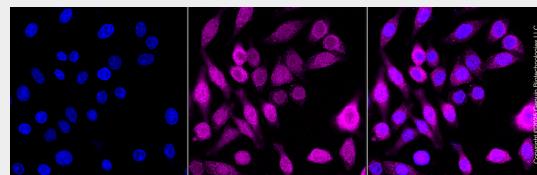
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Western blotting analysis using anti-enolase 1 antibody (Cat#AGI1301). Enolase 1 expression in wild-type (WT) and enolase 1 (ENO1) knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-enolase 1 antibody (Cat#AGI1301, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of Enolase 1 expression in HepG2 cells using anti-Enolase 1 antibody (Cat#AGI1301, 1:2,000). Green, isotype control; red, Enolase 1.



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Immunocytochemical staining of HepG2 cells with anti-Enolase 1 antibody (Cat#AGI1301, 1:1,000). Nuclei were stained blue with DAPI; Enolase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.