

Product Name: KD-Validated Enolase 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01441

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 47.2kDa

Antigen Information

Gene Name	ENO1
Alternative Names	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
Gene ID	2023.0
SwissProt ID	P06733
Immunogen	A synthesized peptide derived from human ENO1

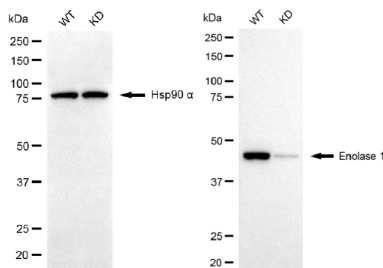
Background

This gene encodes alpha-enolase, one of three enolase isoenzymes found in mammals. Each isoenzyme is a homodimer composed of 2 alpha, 2 gamma, or 2 beta subunits, and functions as a glycolytic enzyme. Alpha-enolase in addition, functions as a structural lens protein (tau-crystallin) in the monomeric form. Alternative splicing of this gene results in a shorter isoform that has been shown to bind to the c-myc promoter and function as a tumor suppressor. Several pseudogenes have been identified, including one on the long arm of chromosome 1. Alpha-enolase has also been identified as an autoantigen in Hashimoto encephalopathy. [provided by RefSeq, Jan 2011]

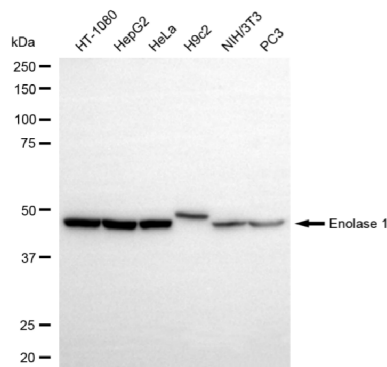
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Cancer, Metabolism

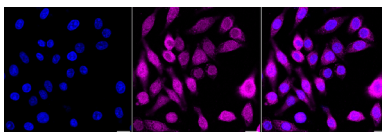
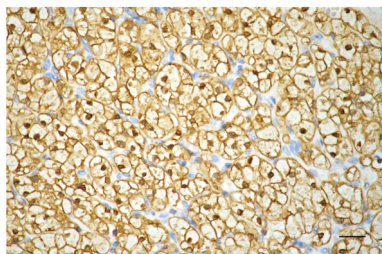
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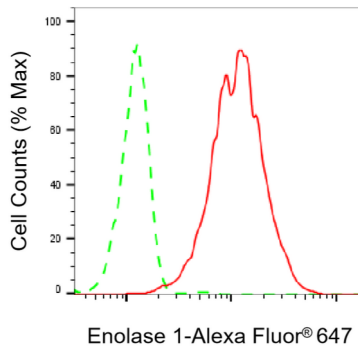
Western blotting analysis using enolase 1 antibody (KVA01441). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with enolase 1 antibody (KVA01441, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human renal carcinoma using enolase 1 antibody (KVA01441, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with Enolase 1 antibody (KVA01441, 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.



Flow cytometric analysis of Enolase 1 expression in HepG2 cells using Enolase 1 antibody (KVA01441, 1:2,000). Green, isotype control; red, Enolase 1.