Product datasheet

Anti-ENO1 Antibody

Catalog Number: *A01250-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-ENO1 Antibody
Gene Name	ENO1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat, monkey
Tested Application	WB, IHC, FCM, ICC/IF, IP
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ENO1, which shares 90.9% amino acid (aa) sequence identity with rat ENO1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	47 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence(ICC/IF): 1:50-400 ImmunoPrecipitation (IP): 1:250-300 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Enolase 1 (ENO1) is a glycolytic enzyme expressed in most tissues. It is mapped to 1p36.23. 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.

Reference

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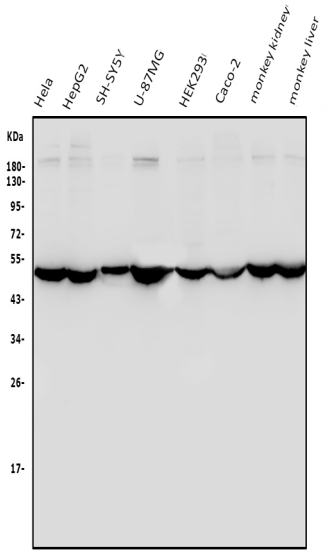
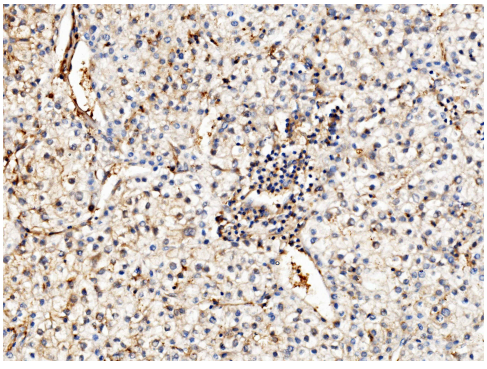
Anti-ENO1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of ENO1 using anti-ENO1 antibody (A01250-1). 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 HepG2 whole cell lysates,
Lane 3: human SH-SY5Y whole cell lysates,
Lane 4: human U-87MG whole cell lysates,
Lane 5: human HEK293 whole cell lysates,
Lane 6: human CACO-2 whole cell lysates,
Lane 7: Monkey kidney tissue lysates,
Lane 8: Monkey liver tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ENO1 antigen affinity purified polyclonal antibody (A01250-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ENO1 at approximately 47 kDa. The expected band size for ENO1 is at 47 kDa.



IHC analysis of ENO1 using anti-ENO1 antibody (A01250-1).
ENO1 was detected in a paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ENO1 Antibody (A01250-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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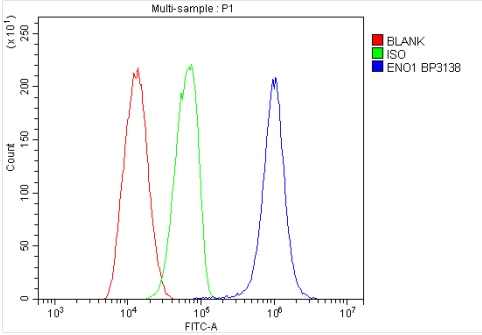
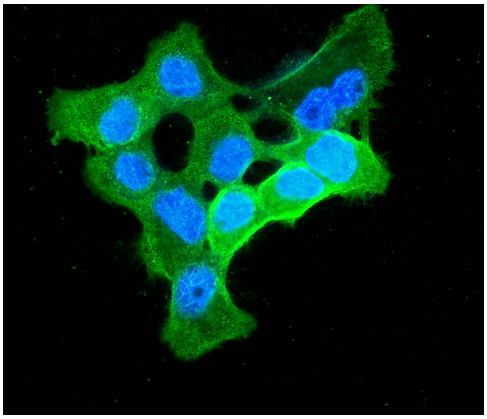
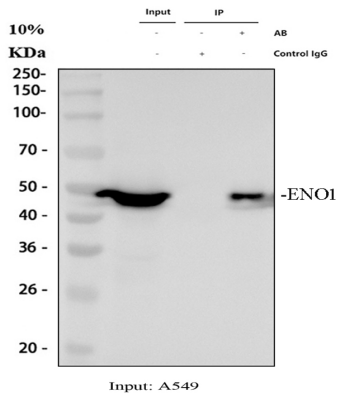


Flow Cytometry analysis of HL-60 cells using anti-ENO1 antibody (A01250-1).
Overlay histogram showing HL-60 cells stained with A01250-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ENO1 Antibody (A01250-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF analysis of ENO1 using anti-ENO1 antibody (A01250-1).
ENO1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-ENO1 Antibody (A01250-1) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



IP analysis of ENO1 using anti-ENO1 antibody (A01250-1) in A549 whole cell lysate.
Western blot analysis of ENO1 using anti- ENO1 antibody (A01250-1).
Lane 1: A549 whole cell lysates(30ug),
Lane 2: Rabbit control IgG instead of anti- ENO1 antibody in A549 whole cell lysate,
Lane 3: anti- ENO1 antibody (2µg) + A549 whole cell lysate (500µg).
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti- ENO1 antigen affinity purified polyclonal antibody (A01250-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ENO1 at approximately 47 kDa. The expected band size for ENO1 is at 47 kDa.

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