Product datasheet

Anti-ENO1 Antibody (Clone#AEA-5)

Catalog Number: *BM4004*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-ENO1 Antibody (Clone#AEA-5)
Gene Name	ENO1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human ENO1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	47 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:20

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.

Selected Validation Data

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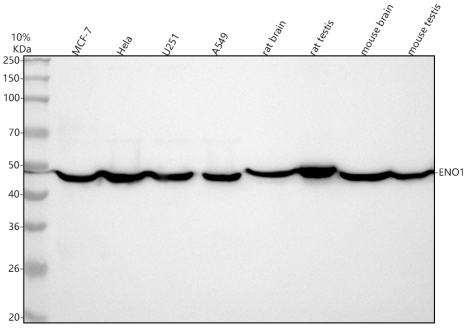
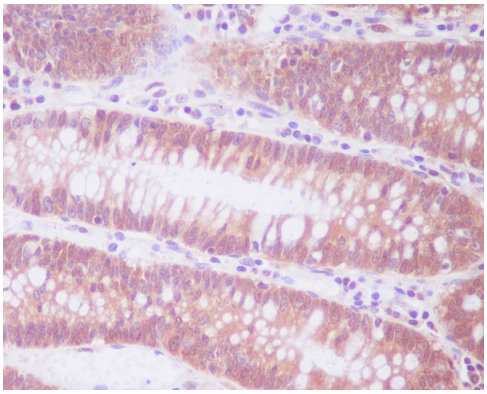


Western blot analysis of anti-ENO1 antibody (BM4004). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human MCF-7 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human U251 whole cell lysates,
Lane 4: human A549 whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat testis tissue lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse testis tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ENO1 antigen affinity purified monoclonal antibody (BM4004) 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.



Immunohistochemical analysis of paraffin-embedded human colon, using ENO1 Antibody.