BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NSE/ENO2 Antibody Picoband®

Catalog Number: PA1061

About ENO2

NSE (neuron specific enolase), also known as Enolase 2 (ENO2), is found in elevated concentrations in plasma in certain neoplasias. The enolases catalyze the interconversion of 2-phosphoglycerate to phosphoenolpyruvate in the glycolytic pathway. ENO2 gene contains 12 exons distributed over 9,213 nucleotides. Human neurone-specific enolase is mapped to chromosome 12p13.

Overview

Product Name	Anti-NSE/ENO2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NSE/ENO2 Antibody catalog # PA1061. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P09104

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NSE, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human, Mouse Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

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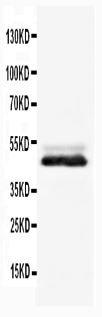
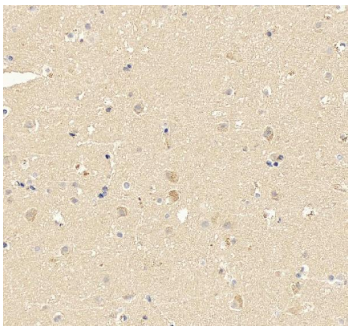
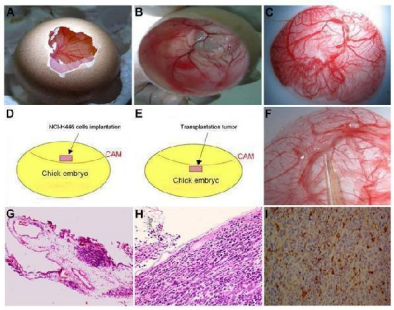
Anti-NSE/ENO2 Antibody Picoband® (PA1061) Images



Anti-NSE antibody, PA1061, Western blottingWB: Rat Brain Tissue Lysate



IHC analysis of NSE/ENO2 using anti-NSE/ENO2 antibody (PA1061). NSE/ENO2 was detected in a paraffin-embedded section of human brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NSE/ENO2 Antibody (PA1061) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Macroscopic examination of the CAM and implanted human NCI-H446 cells . The entire experimental process from the implantation of NCI-H446 cells on the CAM and the formation of the transplantation tumor is shown. (A) Irregular window made in the egg shell of a 7-day-old chick embryo. (B) Elimination of the chick embryo in the CAM was observed. (C) The CAM was peeled for the assay. (D) Diagram of the technique for the implantation of NCI-H446 cells onto the CAM. (E) Diagram of the technique for the formation of the transplantation tumor. (F) The transplantation tumor (white mass was pointed by the tip) was formed on the side facing the chick embryo. (G-H) Histological evaluation of the transplanted tumor on the CAM by hematoxylin-eosin staining is shown:(G) The structure of the transplantation tumor and peripheral vessels (50 ×). (H) Pathological appearance of the transplantation tumor (200 ×). (I) Specific analysis was carried out by immunohistochemistry for the expression of NSE. The cellular nucleus was irregular, and positive expression for NSE was found in the intercellular substance or endochylema (400 ×). Index in PubMed under a CC BY license. PMID: 21843314

IHC analysis of NSE using anti-NSE antibody (PA1061). NSE was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-

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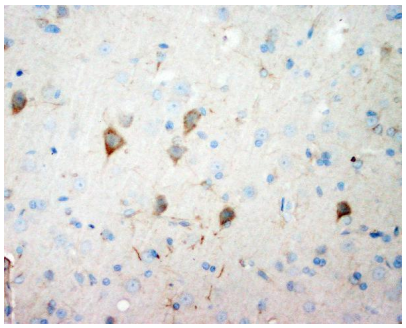

NSE Antibody (PA1061) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

48 Publications Citing This Product

1. PubMed ID: 10.3892/or.16.5.1021, Histological type of oncogenity and expression of cell cycle genes in tumor cells from human mesenchymal stem cells

2. PubMed ID: 10.3892/ijmm.2011.734, Involvement of calmodulin and actin in directed differentiation of rat cortical neural stem cells into neurons

3. PubMed ID: 10.4103/1673-5374.211193, Protective effects of Dendrobium nobile Lindl. alkaloids on amyloid beta (25–35)-induced neuronal injury

Visit bosterbio.com/anti-nse-antibody-pa1061-boster.html to see all 48 publications.

Anti-NSE/ENO2 Antibody

For Research Use Only. Not for use in diagnostic procedures.