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Human Enolase 2/ENO2 antibody

Catalog Number: ATGA0273

PRODUCT INFORMATION

Catalog number
ATGA0273

Clone No.
AT17D10

Product type
Monoclonal Antibody

UnitProt No.
P09104

NCBI Accession No.
NP_001966

Alternative Names
Enolase 2 (gamma, neuronal), ENO2, NSE, Neuron-Specific Enolase, 2 phospho D glycerate hydrolyase, Eno 2, ENOG, Enolase 2 gamma neuronal, Enolase2, Gamma enolase, Neural enolase, Neuron specific enolase, Neuron specific gamma enolase, Neurone specific enolase.

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human NSE (1-434aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500 ~ 1:5000. Recommended starting dilution is

1:1000.

Storage
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

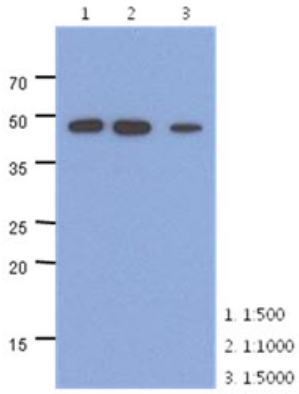
BACKGROUND

Description
Neuron-specific enolase (NSE) is a glycolytic isoenzyme which is located in central and peripheral neurons and neuroendocrine cells. This enzyme is released into the CSF when neural tissue is injured. Neoplasms derived from neural or neuroendocrine tissue may release NSE into the blood. NSE is a useful substance that has been detected in patients with certain tumors, namely: neuroblastoma, small cell lung cancer, medullary thyroid cancer, carcinoid tumors, pancreatic endocrine tumors, and melanoma.

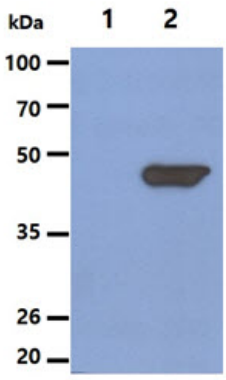
General References
Oliva D, Cali L, Feo S, Giallongo A (1991). Genomics 10 (1): 157-65.
Craig SP, Day IN, Thompson RJ, Craig IW (1991). Cytogenet. Cell Genet. 54 (1-2): 71-3.
McAleese SM, Dunbar B, Fothergill JE, et al. (1989). Eur. J. Biochem. 178 (2): 413-7.

DATA

Western blot analysis (WB)



The extracts of mouse brain (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NSE antibody (1:500 ~ 1:5000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



The Cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NSE antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: NSE Transfected 293T cell lysate

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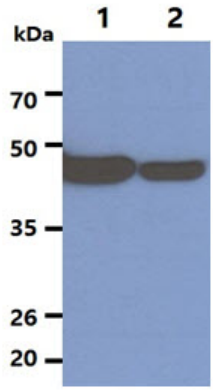
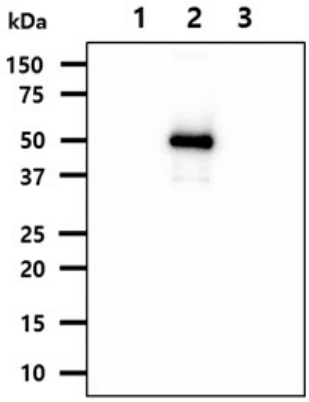
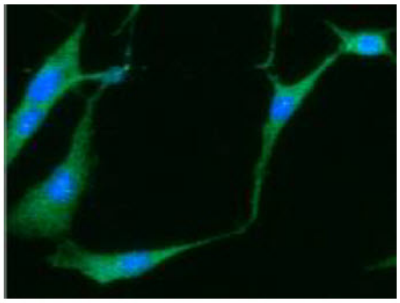


The Cell lysates (20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NSE antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: U-87 MG cell lysate
Lane 2.: Jurkat cell lysate



The recombinant proteins (50ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human NSE antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Recombinant protein ENO1
Lane 2.: Recombinant protein NSE (ENO2)
Lane 3.: Recombinant protein ENO3

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of NSE in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human NSE antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).