

Rabbit NSE/ENO2 Polyclonal Antibody | anti-NSE antibody

Anti-NSE/ENO2 Antibody

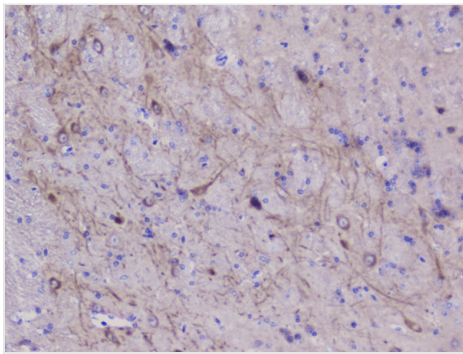
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124946	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NSE/ENO2; Polyclonal Antibody; Anti-NSE/ENO2 Antibody; Gamma-enolase; 2-phospho-D-glycerate hydro-lyase; Enolase 2; Neural enolase; Neuron-specific enolase; NSE; ENO2; Enolase 2 (gamma; neuronal); anti-NSE antibody

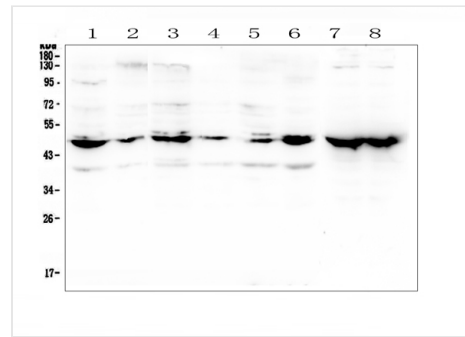
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	391
Applicable Applications for anti-NSE antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human NSE (LKAVDHINSTIAPALISSGLSVVEQEKL DNLMLELDGTENK).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of NSE using anti-NSE antibody. NSE was detected in paraffin-embedded section of human placenta 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-NSE antibody. NSE was detected in paraffin-embedded section of human placenta 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-NSE antibody. NSE was detected in paraffin-embedded section of human pancreatic cancer 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-NSE antibody. 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-NSE antibody. NSE was detected in paraffin-embedded section of mouse 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-NSE Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NSE using anti-NSE antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human 22RV1 whole cell lysate, Lane 2: human U20S whole cell lysate, Lane 3: human A431 whole cell lysate, Lane 4: human HepG2 whole cell lysate, Lane 5: human A549 whole cell lysate, Lane 6: human SHG-44 whole cell lysate, Lane 7: rat brain tissue lysates, Lane 8: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with a 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NSE antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NSE at approximately 47KD. The expected band size for NSE is at 47KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NSE antibody	Description: Rabbit IgG polyclonal antibody for NSE detection. Tested with WB, IHC-P in Human; Mouse; Rat. Background: 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.
References	1. Craig, S. P.; Day, I. N. M.; Thompson, R. J.; Craig, I. W.: Localization of human neurone-specific enolase to chromosome 12p13. (Abstract) Cytogenet. Cell Genet. 51: 980 only, 1989. 2. Craig, S. P.; Day, I. N. M.; Thompson, R. J.; Craig, I. W.: Localisation of neurone-specific enolase (ENO2) to 12p13. Cytogenet. Cell Genet. 54: 71-73, 1990. 3. Mattei, J. F.; Baeteman, M. A.; Mattei, M. G.; Ardissonne, J. P.; Giraud, F.: Regional assignments of CS and ENO2 on chromosome 12. (Abstract) Cytogenet. Cell Genet. 32: 297 only, 1982.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5803011
NCBI GeneID	2026
NCBI Accession #	NP_001966.1
NCBI GenBank Nucleotide #	NM_001975.3
UniProt Accession #	P09104; Q96J33; B7Z2X9
Molecular Weight	42,707 Da
NCBI Official Full Name	gamma-enolase

NCBI Official Synonym Full Names	enolase 2
NCBI Official Symbol	ENO2
NCBI Official Synonym Symbols	NSE; HEL-S-279
NCBI Protein Information	gamma-enolase
UniProt Protein Name	Gamma-enolase
UniProt Gene Name	ENO2
UniProt Synonym Gene Names	NSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nse-eno2-antibody-immunohistochemistry-western-blot-elisa/124946>