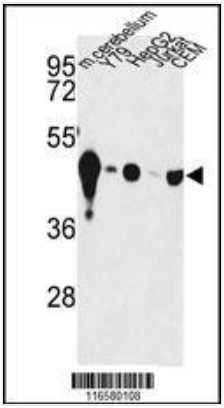
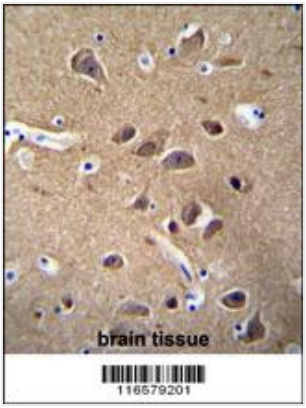
NSE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NSE, Polyclonal Antibody
Full Product Name	NSE (Y25) (Gamma-enolase, 2-phospho-D-glycerate Hydro-lyase, Neural Enolase, Neuron-specific Enolase, NSE, Enolase 2, ENO2, NSE) (Azide free) (HRP)
Product Gene Name	anti-NSE antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human NSE. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	42,707 Da
OMIM	131360
3D Structure	ModBase 3D Structure for P09104
Immunogen	Synthetic peptide corresponding to amino acid residues surrounding Y25 of human NSE (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-NSE antibody	Antibodies; Neuron Specific Enolase
Applications Tested/Suitable for anti-NSE antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-NSE antibody	IHC: 1:50-1:100 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-NSE antibody	MBS6489916 is an antibody targeting NSE. Also known as NSE (Y25) (Gamma-enolase, 2-phospho-D-glycerate Hydro-lyase, Neural Enolase, Neuron-specific Enolase, NSE, Enolase 2, ENO2, NSE) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-NSE antibody	1. Kotaska, K., Neuro Endocrinol. Lett. 28(6), 761-764 (2007). 2. Forooghian, F., J. Clin. Immunol. 27(4), 388-396 (2007). 3. Rech, T.H., Crit Care 10(5), R133 (2006). 4. Oliva, D., Genomics 10(1), 157-165 (1991).
Other Notes	Small volumes of anti-NSE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-NSE antibody
Western blot analysis of NSE-Y25 Antibody in mouse cerebellum tissue and Y79, HepG2, Jurkat, CEM cell line lysates (35ug/lane). NSE (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-NSE antibody
NSE Antibody (Y25) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NSE Antibody (Y25) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSE. It may not necessarily be applicable to this product.

NCBI GI #	5803011
NCBI GeneID	2026
NCBI Accession #	NP_001966
UniProt Primary Accession #	P09104
UniProt Secondary Accession #	Q96J33; B7Z2X9
UniProt Related Accession #	P09104
GenBank Nucleotide #	NM_001975.2
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
UniProt Protein Name	Gamma-enolase
UniProt Synonym Protein Names	2-phospho-D-glycerate hydro-lyase; Enolase 2; Neural enolase; Neuron-specific enolase
Protein Family	Gamma-enolase
UniProt Gene Name	ENO2
UniProt Synonym Gene Names	NSE
UniProt Entry Name	ENOG_HUMAN
NCBI Protein Information	gamma-enolase
NCBI Summary for NSE	This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates. [provided by RefSeq, Jul 2008]

UniProt Comments for NSE	ENO2: an enzyme with 2-phospho-D-glycerate hydro-lyase activity. One of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates. Protein type: Carbohydrate Metabolism - glycolysis and gluconeogenesis; Lyase; EC 4.2.1.11 Chromosomal Location of Human Ortholog: 12p13 Cellular Component: extracellular space; photoreceptor inner segment; phosphopyruvate hydratase complex; plasma membrane; perikaryon; cytosol Molecular Function: magnesium ion binding; phosphopyruvate hydratase activity Biological Process: glycolysis; carbohydrate metabolic process; glucose metabolic process; pathogenesis; gluconeogenesis
Research Articles on NSE	**1.** Serum levels of neuron-specific enolase (and S100B) are both significantly increased postoperatively and predict postoperative cognitive dysfunction.
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