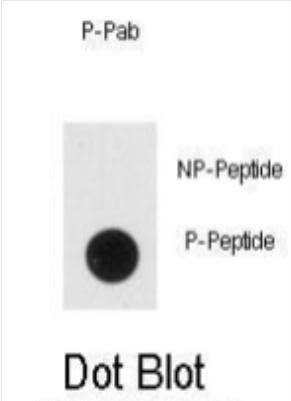
NSE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NSE, Polyclonal Antibody
Full Product Name	NSE, Phosphorylated (Tyr236) (Gamma-enolase, 2-phospho-D-glycerate Hydro-lyase, Neural Enolase, Neuron-specific Enolase, NSE, Enolase 2, ENO2, NSE) (MaxLight 550)
Product Gene Name	anti-NSE antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human NSE when phosphoryated at Tyr236.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,707 Da
OMIM	131360
3D Structure	ModBase 3D Structure for P09104
Immunogen	KLH-conjugated synthetic phosphopeptide mapping to a fragment of residues surrounding Try236 of human NSE, Swiss/UniProt Accession: P09104. Species sequence homology: mouse, rat
Conjugate	MaxLight550
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-NSE antibody	Antibodies; Neuron Specific Enolase
Applications Tested/Suitable for anti-NSE antibody	FLISA, Dot Blot (DB)
Application Notes for anti-NSE antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NSE antibody	NSE is 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.
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.

Searchable Terms for NSE purchase	MBS6489930 is an antibody targeting NSE. Also known as NSE, Phosphorylated (Tyr236) (Gamma-enolase, 2-phospho-D-glycerate Hydro-lyase, Neural Enolase, Neuron-specific Enolase, NSE, Enolase 2, ENO2, NSE) (MaxLight 550). Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-NSE antibody
Dot Blot analysis on nitrocellulose membrane using MBS628670 (0.5ug/ml). 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed.

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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