

Mouse NSE gamma (Neuron Specific Enolase, gamma) Monoclonal Antibody | anti-NSE gamma antibody

NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker)

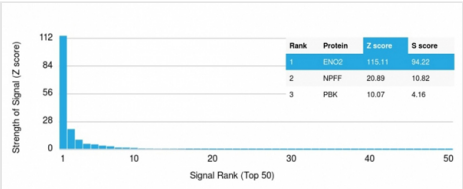
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62964	Mouse	Human. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

NSE gamma (Neuron Specific Enolase; gamma); Monoclonal Antibody; gamma) (Neuroendocrine Marker); 2-phospho-D-glycerate hydrolyase; ENO2; ENOG; Enolase 2 gamma neuronal; Enolase2; Gamma-enolase; Neural enolase; Neuron specific gamma enolase; Neuron-specific enolase; NSE; anti-NSE gamma antibody

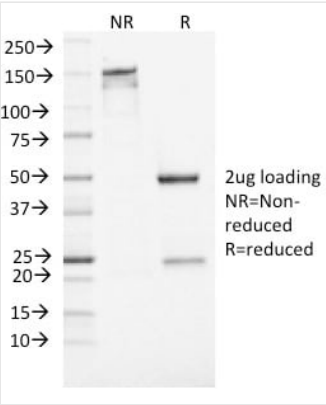
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	ENO2/1462
Specificity	Recognizes a protein of about 50kDa, which is identified as gamma-enolase. Three isoenzymes of enolases are identified, alpha, beta and gamma. Alpha-isoform is expressed in most tissues, whereas beta-form is expressed predominantly in muscle tissue whereas gamma-enolase is found only in nervous tissue. These isoforms exist as both homodimers and heterodimers, and they play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway. NSE-gamma is a useful marker to identify peripheral nerves and tumors of neuro-endocrine origins, such as pheochromocytomas. It is usually employed in combination with other markers such as Synaptophysin, Chromogranin A, and Neurofilament.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	434
Applicable Applications for anti-NSE gamma antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	A synthetic peptide corresponding to aa416-433 of human NSE gamma
Cellular Localization	Cytoplasmic
Hu-chromosome Location	12p13
Positive Control	HepG2, SH-SY-5Y, HeLa or Y79 cells. Pancreas, Cerebellum or Pheochromocytoma.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



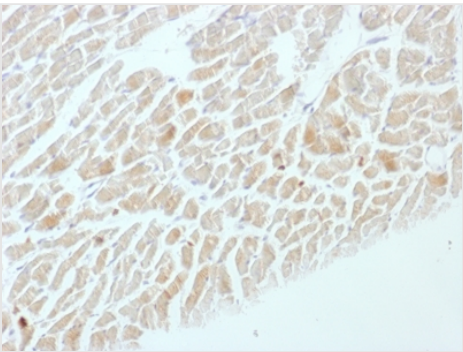
Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using NSE gamma (ENO2) Mouse Monoclonal Antibody (ENO2/1462) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



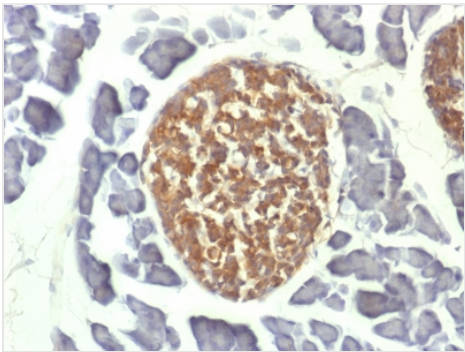
SDS_PAGE

SDS-PAGE Analysis Purified NSE gamma Mouse Monoclonal Antibody (ENO2/1462). Confirmation of Integrity and Purity of Antibody.



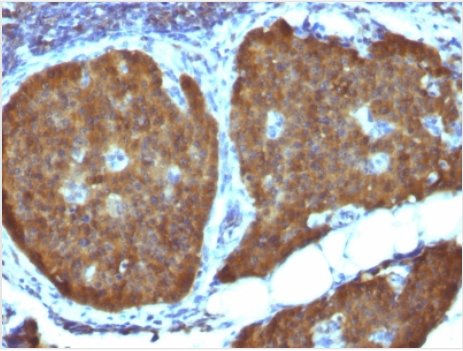
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Rat Heart stained with NSE gamma Monoclonal Antibody (ENO2/1462).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Mouse Pancreas stained with NSE gamma Monoclonal Antibody (ENO2/1462).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Human Pheochromocytoma stained with NSE gamma Monoclonal Antibody (ENO2/1462).

ADDITIONAL INFORMATION

References	Verma, M., et al. 1994. DNA sequences encoding enolase are remarkably conserved from yeast to mammals. Life Sci. 55: 893-899.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5803011
NCBI GeneID	2026

NCBI Accession #	NP_001966.1
NCBI GenBank Nucleotide #	NM_001975.2
UniProt Accession #	P09104 ; Q96J33 ; B7Z2X9
Molecular Weight	~50kDa
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/nse-gamma-neuron-specific-enolase-gamma-antibody-clone-eno2-1462-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62964>