

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

Mouse Monoclonal Antibody [Clone ENO2/4507]

Catalog No	Format	Size
2026-MSM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2026-MSM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2026-MSM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

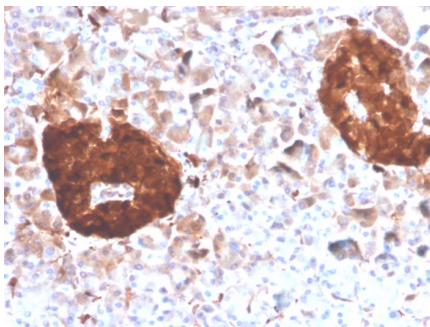
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

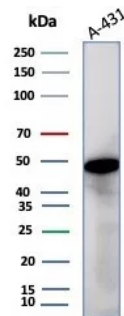
Clone	ENO2/4507
Gene Name	ENO2
Immunogen	Recombinant fragment of human NSE gamma (around aa416-433) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	~50kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Human
Positive Control	cerebellum or pheochromocytoma, Jurkat cells. Human pancreas

*Optimal dilution for a specific application should be determined.

Product Images for NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker) Antibody



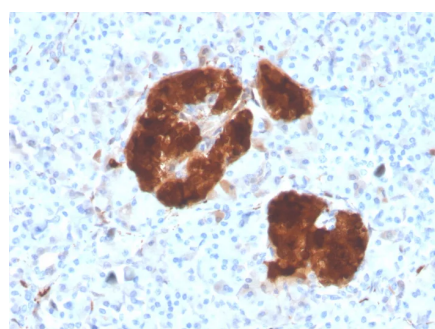
Formalin-fixed, paraffin-embedded human pancreas stained with NSE gamma Mouse Monoclonal Antibody (ENO2/4507).



Western blot analysis of A431 cell lysate using NSE gamma Mouse Monoclonal Antibody (ENO2/4507).



Analysis of Protein Array containing more than 19,000 full-length human proteins using Monospecific Mouse Monoclonal Antibody to NSE gamma (ENO2/4507). 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.



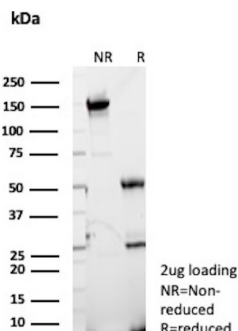
Formalin-fixed, paraffin-embedded human pancreas stained with NSE gamma Mouse Monoclonal Antibody (ENO2/4507).

Specificity & Comments

This monoclonal antibody 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 can be usually employed in combination with other markers such as Synaptophysin, Chromogranin A, and Neurofilament.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.



SDS-PAGE Analysis of Purified ENO2 Mouse Monoclonal Antibody (ENO2/4507). Confirmation of Purity and Integrity of Antibody

Supplied As

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Mast Cell Marker, Neuroscience