

## Product Datasheet

### NSE Antibody / Neuron Specific Enolase (orb1825911)

<b>Description</b>	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 is usually employed in combination with other markers such as Synaptophysin, Chromogranin A, and Neurofilament.
<b>Species/Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	IHC-P, WB
<b>Immunogen</b>	A recombinant fragment of human NSE gamma (within amino acids 416-433) was used as the immunogen for the Gamma Enolase antibody.
<b>Storage</b>	Aliquot the Gamma Enolase antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clonality</b>	Monoclonal
<b>Clone Number</b>	ENO2/4507

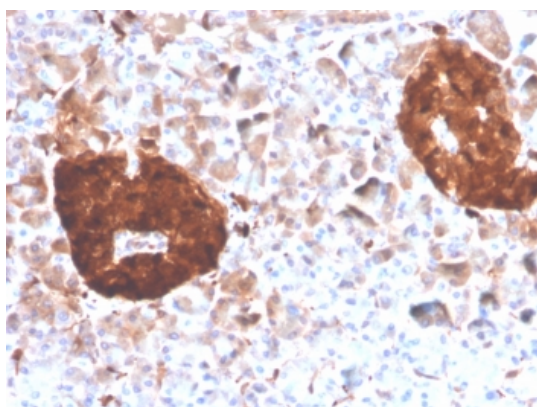
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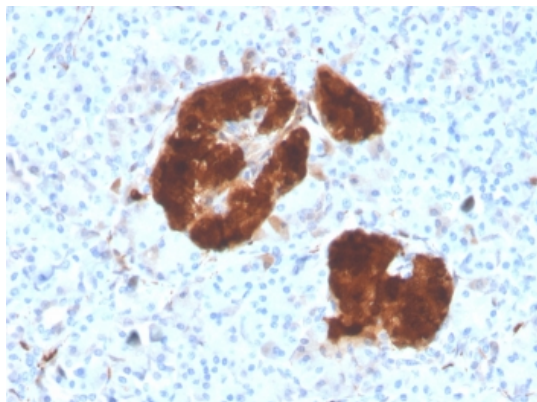
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<b>Uniprot ID</b>	<b>P09104</b>
<b>Hazard Information</b>	This Gamma Enolase antibody is available for research use only.
<b>Dilution Range</b>	Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
<b>Expiration Date</b>	12 months from date of receipt.



IHC staining of FFPE human pancreas tissue with Gamma Enolase antibody (clone ENO2/4507). HIER: boil tissue sections in pH9 10 mM Tris with 1 mM EDTA for 20 min and allow to cool before testing.



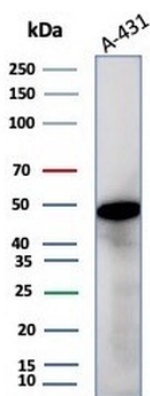
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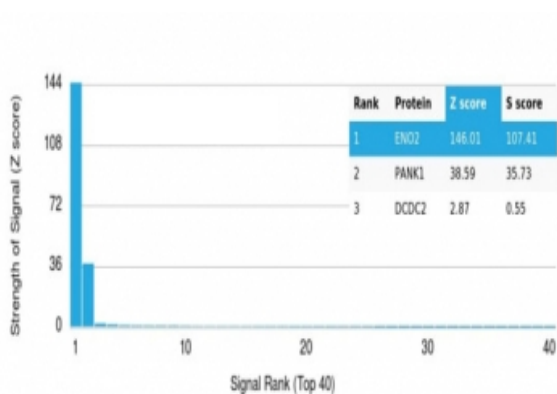
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Western blot testing of human A431 cell lysate with Gamma Enolase antibody (clone ENO2/4507). Predicted molecular weight ~47 kDa.



Analysis of a HuProt (TM) microarray containing more than 19000 full-length human proteins using Gamma Enolase antibody (ENO2/4507). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt (TM) 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 (TM) 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 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.

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