

**Anti-NSE gamma Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13198****Specification**

---

**Anti-NSE gamma Antibody - Product Information**

Application	IHC-P, IF, FC
Primary Accession	<a href="#">P09104</a>
Other Accession	<a href="#">511915</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2b
Calculated MW	47269

**Anti-NSE gamma Antibody - Additional Information****Gene ID** 2026**Other Names**

2-phospho-D-glycerate hydrolyase; ENO2; ENOG; Enolase 2 gamma neuronal; Enolase2;  
Gamma-enolase; Neural enolase; Neuron specific gamma enolase; Neuron-specific enolase; NSE

**Application Note**

IHC-P~N/A  
IF~1:50~200  
FC~1:10~50

**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.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Anti-NSE gamma Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-NSE gamma Antibody - Protein Information****Name** ENO2 ([HGNC:3353](#))**Function**

Enolase that catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate in glycolysis and the reverse reaction in gluconeogenesis (By similarity). Has neurotrophic and neuroprotective properties on a broad spectrum of central nervous system (CNS) neurons. Binds, in a calcium-dependent manner, to cultured neocortical neurons and promotes cell survival (By similarity).

**Cellular Location**

Cytoplasm. Cell membrane. Note=Can translocate to the plasma membrane in either the homodimeric (alpha/alpha) or heterodimeric (alpha/gamma) form

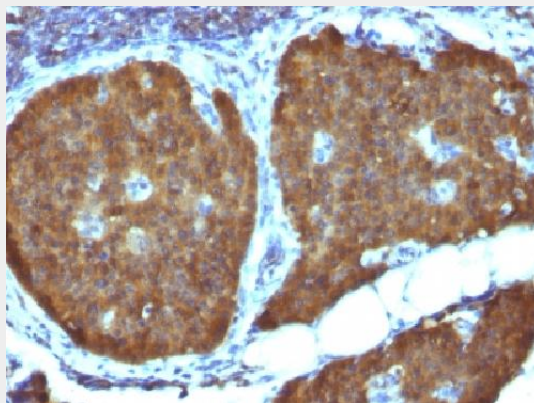
**Tissue Location**

The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

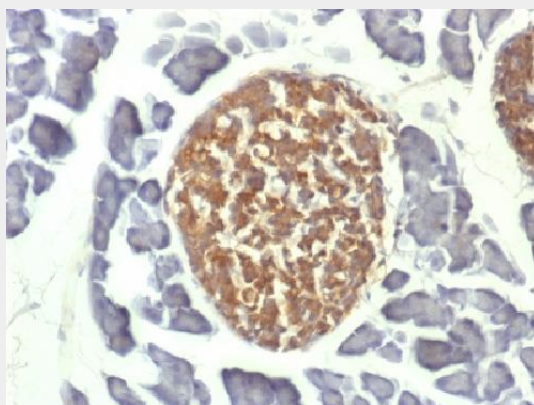
**Anti-NSE gamma Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

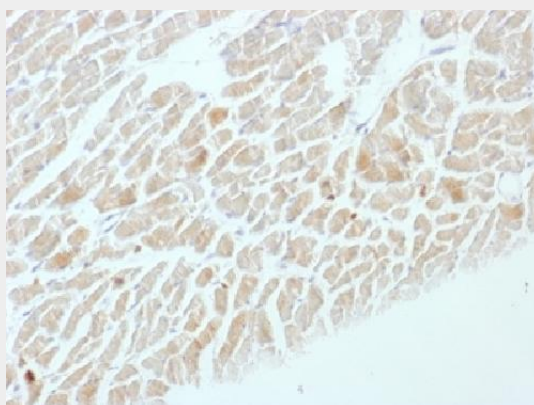
**Anti-NSE gamma Antibody - Images**

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



Formalin-fixed, paraffin-embedded Mouse Pancreas stained with NSE gamma Monoclonal

Antibody (ENO2/1462).



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

#### **Anti-NSE gamma Antibody - Background**

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.