10320 Camino Santa Fe, Suite A
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Anti-NSE gamma Antibody
Mouse Monoclonal Antibody
Catalog # AH13194

Specification

Anti-NSE gamma Antibody - Product Information

Application	**WB, IHC-P, IF, FC**
Primary Accession	P09104
Other Accession	511915
Reactivity	**Human, Mouse, Rat**
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
WB~~1:1000<br \>IHC-P~~N/A<br \>IF~~1:50~200<br \>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

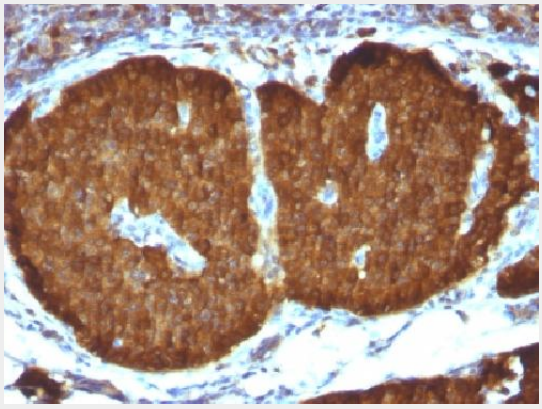
Tissue Location
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

Anti-NSE gamma Antibody - Protocols

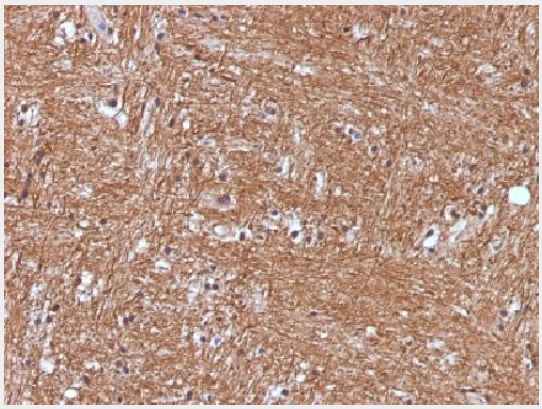
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-NSE gamma Antibody - Images



Formalin-fixed, paraffin-embedded Human Pheochromocytoma stained with NSE gamma Monoclonal Antibody (ENO2/1375).



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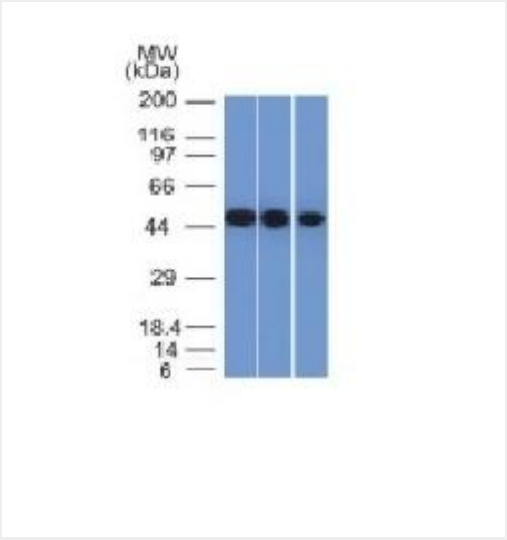
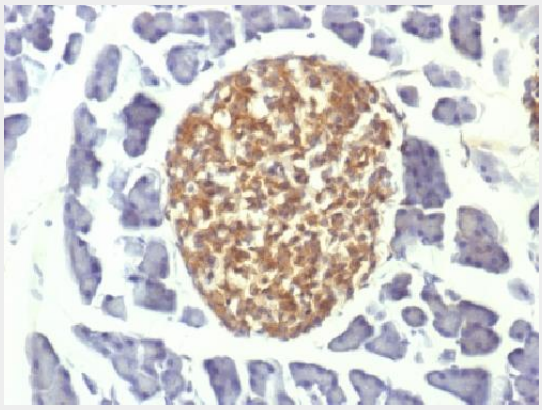
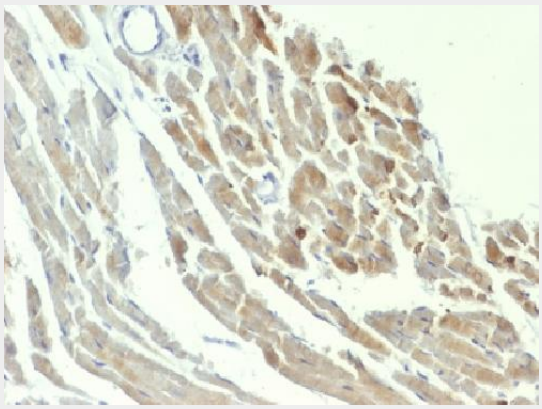
Formalin-fixed, paraffin-embedded Human Cerebellum stained with NSE gamma Monoclonal Antibody (ENO2/1375).



Western Blot of Y79, HeLa and HepG2 Cell Lysate using NSE, gamma Monoclonal Antibody (ENO2/1375).



Formalin-fixed, paraffin-embedded Mouse Pancreas stained with NSE gamma Monoclonal Antibody (ENO2/1375).



Formalin-fixed, paraffin-embedded Rat Heart stained with Formalin-fixed, paraffin-embedded Rat Heart stained with NSE gamma Monoclonal Antibody (ENO2/1375).

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 phosphenolpyruvic 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 it be usually employed in combination with other markers such as Synaptophysin, Chromogranin A, and Neurofilament.