

**NSE Antibody (Y236)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2780a**

**Specification**

**NSE Antibody (Y236) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">P09104</a>
Other Accession	<a href="#">P07323</a> , <a href="#">P17183</a> , <a href="#">NP_001966</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	213-239

**NSE Antibody (Y236) - Additional Information**

**Gene ID 2026**

**Other Names**

Gamma-enolase, 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase, NSE, ENO2

**Target/Specificity**

This NSE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 213-239 amino acids from human NSE.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NSE Antibody (Y236) is for research use only and not for use in diagnostic or therapeutic procedures.

**NSE Antibody (Y236) - 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

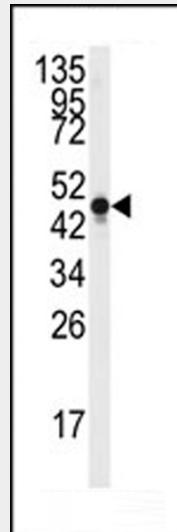
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

### NSE Antibody (Y236) - Protocols

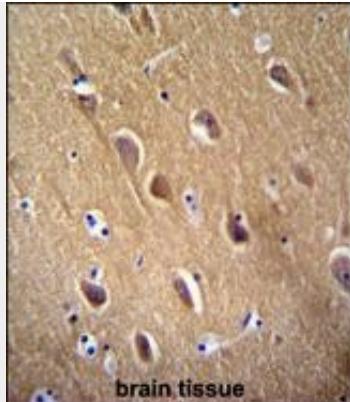
Provided below are standard protocols that you may find useful for product applications.

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

### NSE Antibody (Y236) - Images



Western blot analysis of anti-NSE Antibody (Y236) (Cat.#AP2780a) in Y79 cell line lysates (35ug/lane). NSE (arrow) was detected using the purified Pab.



NSE Antibody (Y236) (Cat. #AP2780a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of NSE Antibody (Y236) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **NSE Antibody (Y236) - Background**

NSE is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.

#### **NSE Antibody (Y236) - References**

- Kotaska,K., Neuro Endocrinol. Lett. 28 (6), 761-764 (2007)
- Forooghian,F., J. Clin. Immunol. 27 (4), 388-396 (2007)
- Rech,T.H., Crit Care 10 (5), R133 (2006)
- Oliva,D., Genomics 10 (1), 157-165 (1991)