

**Phospho-NSE(Y236) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3589a**

## Specification

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### Phospho-NSE(Y236) Antibody - Product Information

Application	DB,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

### Phospho-NSE(Y236) Antibody - 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 phosphopeptide corresponding to amino acid residues surrounding Y236 of human NSE.

#### Dilution

DB~~1:500

#### 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

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

### Phospho-NSE(Y236) Antibody - Protein Information

**Name** ENO2

**Function** 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

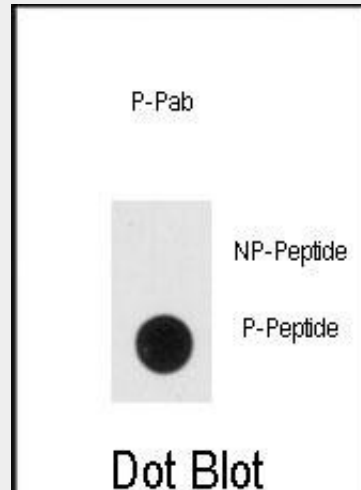
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

### Phospho-NSE(Y236) 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](#)

### Phospho-NSE(Y236) Antibody - Images



Dot blot analysis of anti-Phospho-NSE-pY236 Antibody (Cat.#AP3589a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

### Phospho-NSE(Y236) Antibody - 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.

### Phospho-NSE(Y236) Antibody - 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)

**Phospho-NSE(Y236) Antibody - Citations**

- [Axonal motor protein KIF5A and associated cargo deficits in multiple sclerosis lesional and normal-appearing white matter.](#)
- [Reduced axonal motor protein expression in non-lesional grey matter in multiple sclerosis.](#)