

# Phospho-NSE(Y236) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3589a

## Product Information

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<b>Application</b>	DB, E
<b>Primary Accession</b>	<a href="#">P09104</a>
<b>Other Accession</b>	<a href="#">P07323</a> , <a href="#">P17183</a> , <a href="#">NP_001966</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB16241
<b>Calculated MW</b>	47269

## Additional Information

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<b>Gene ID</b>	2026
<b>Other Names</b>	Gamma-enolase, 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase, NSE, ENO2
<b>Target/Specificity</b>	This NSE Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y236 of human NSE.
<b>Dilution</b>	DB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	Phospho-NSE(Y236) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ENO2
<b>Function</b>	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

## Background

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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.

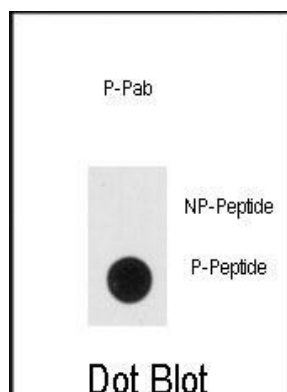
## References

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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)

## Images

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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.

## Citations

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- [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.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.