

Phospho-NSE(Y236) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP3589a

Specification

Phospho-NSE(Y236) Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype DB,E <u>P09104</u> <u>P07323</u>, <u>P17183</u>, <u>NP_001966</u> Human Mouse, Rat Rabbit Polyclonal 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 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

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

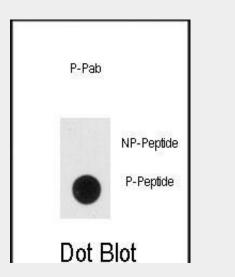
The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons

Phospho-NSE(Y236) Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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.