

NSE Antibody (Y236)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2780a

Product Information

Application WB, IHC-P, E **Primary Accession** P09104

Other Accession <u>P07323</u>, <u>P17183</u>, <u>NP 001966</u>

Reactivity Human **Predicted** Mouse, Rat Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB16241 **Calculated MW** 47269 **Antigen Region** 213-239

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 WB~~1:1000 IHC-P~~1:100~500 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 NSE Antibody (Y236) is for research use only and not for use in diagnostic or

therapeutic procedures.

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

Background

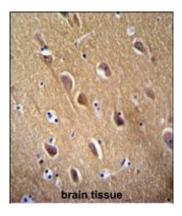
NSE is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.

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)

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.

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