10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NSE Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50004

Product Information

Application	WB, IF, IHC
Primary Accession	P09104
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	47269

Additional Information

Gene ID	2026
Other Names	Gamma-enolase, 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase, NSE, ENO2
Dilution	WB~~ 1:1000 IF~~1:100 IHC~~1:50-1:100
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

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

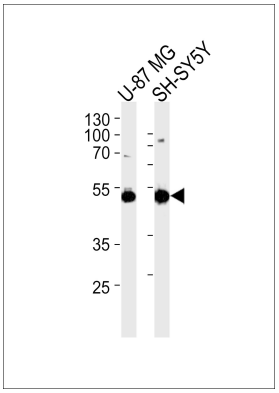
Background

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).

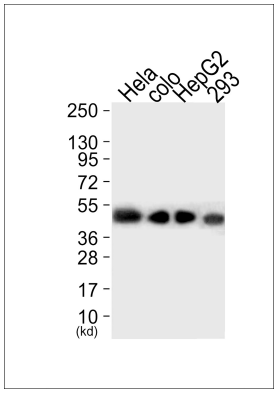
References

McAleese S.M.,et al.Eur. J. Biochem. 178:413-417(1988).
van Obberghen E.,et al.J. Neurosci. Res. 19:450-456(1988).
Oliva D.,et al.Gene 79:355-360(1989).
Oliva D.,et al.Genomics 10:157-165(1991).
Ansari-Lari M.A.,et al.Genome Res. 7:268-280(1997).

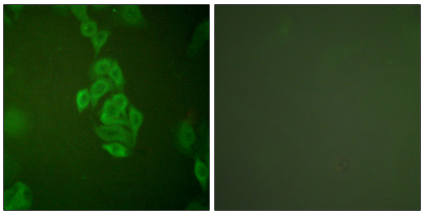
Images



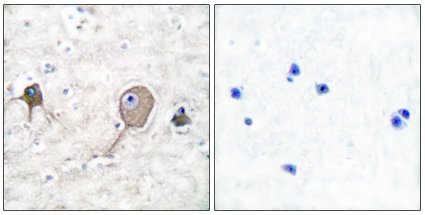
Western blot analysis of lysates from U-87 MG,SH-SY5Y cell line (from left to right),using NSE Antibody(C0280). C0280 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Western blot analysis of extracts from Hela cells (Lane 1), colo cells(Lane 2),HepG2 cells(Lane 3) and 293 cells (Lane 4), using NSE Antibody. The lane on the left is treated with synthesized peptide.



Immunofluorescence analysis of A549 cells, using NSE antibody .



Immunohistochemical analysis of paraffin-embedded human brain tissue using NSE antibody .

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