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PRODUCT DATASHEET

Anti-Neuron specific enolase (NSE) Antibody

Product Details

Available Variants	50 µL (SKU:R-1396-50)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Rabbit
Format	Whole serum
Physical State	Lyophilized
Buffer	Lyophilized with sodium azide.
Applications	ICC, WB
Dilution Ranges	WB: 1:1000-1:2000 IHC: 1:500
Species Reactivity	Human, Mouse, Rat
Immunogen	Recombinant human Neuron Specific Enolase (NSE) expressed in and purified from E.coli
Specificity	Specifically recognizes ~47 kDa NSE protein in WB. Human and rat. Predicted to react with other mammals due to sequence homology.
Molecular Weight	47 kDa
Storage	Spin vial briefly before opening. Reconstitute with 50 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
UniProt ID	P09104 UniProt Summary: Enolase that catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate in glycolysis and the reverse reaction in gluconeogenesis. 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.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	2026

Product Images

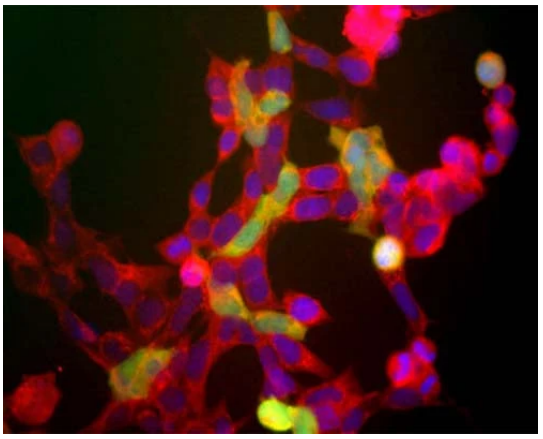
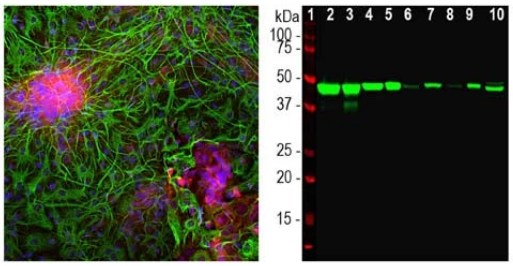


Image shows the human embryonic kidney cells line 293 (Hek293). The red channel shows staining with Rabbit polyclonal antibody to Neuron specific enolase R-1396-50, which recognizes all of these 293 cells. The green channels shows staining for another neuronal marker with Mouse monoclonal antibody to ubiquitin C-terminal hydrolase 1 (UCHL1), M-1407-100. This neuronal gene is apparently activated in a cell density dependent fashion and at this stage only a few cells express this protein. However all cells that express NSE also express UCHL1.



Left: Immunofluorescent analysis of mixed cortical neuron-glial cell culture from E20 rat by **Immunocytochemistry**. Cells were stained with rabbit antibody to NSE (red, 1:500), and co-stained with chicken antibody to GFAP (C-1373-50, green, 1:5,000). Blue: Hoechst nuclear dye. The NSE antibody labels protein expressed in neuronal cells, while the GFAP antibody stains intermediate filaments in astrocytes. **Right: Western blot** analysis of tissue and cell lysates using rabbit antibody to NSE (green, 1:5,000). [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH-3T3, [7] HEK293, [8] HeLa, [9] SH-SY5Y, and [10] C6. A single band at about 47 kDa corresponds to the NSE protein, seen only in extracts containing neurons or neuronal lineage cells.



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