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# NSE Antibody

Rabbit mAb
Catalog # AP90659

## Product Information

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|---|---|
| **Application** | WB, IHC, IF, FC, ICC, IHF |
| **Primary Accession** | P09104 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | ENO2; ENOG; Enolase 2; enolase 2 (gamma, neuronal); Gamma-enolase; Neural enolase; neuron specific gamma enolase; Neuron-specific enolase; neurone-specific enolase; NSE; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 47269 |

## Additional Information

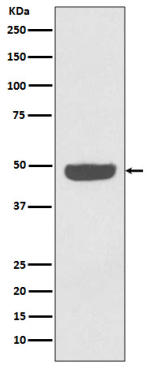
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|---|---|
| **Dilution** | WB 1:5000~1:10000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:50 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human NSE |
| **Description** | ENO2 an enzyme with 2-phospho-D-glycerate hydro-lyase activity. 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. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

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|---|---|
| **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

## Images




Western blot analysis of NSE expression in HeLa cell lysate.

Image not found : 202311/AP90659-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human uterus cancer, using NSE Antibody.

Image not found : 202311/AP90659-IF.jpg

Immunofluorescent analysis of A431 cells, using NSE Antibody.

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