



## Anti-NSE Antibody (Clone NSEP1)

**Alternative Names:** Gamma-enolase, enolase 2, ENO2, gamma-isozyme

**Catalogue Number:** AX17-10011-100ug

**Size:** 100 µg

### Background Information

Neuron-specific enolase (NSE) is a glycolytic isoenzyme found in central and peripheral neurons and neuroendocrine cells. Enolase exists as a number of tissue-specific isoenzymes, consisting of homo or heterodimers of 3 different monomer-isoforms (alpha, beta, and gamma). Neuron specific enolase (NSE) is a 78 kD gamma-homodimer and represents the dominant enolase-isoenzyme found in neuronal and neuroendocrine tissues. NSE levels in other tissues, except erythrocytes, are negligible.

Concentrations of NSE in serum or cerebrospinal fluid (CSF) are generally elevated in diseases which result in neuronal destruction. This antibody (Clone NSEP1) is not reactive with other isozyne forms of enolase.

### Product Information

<b>Antibody Type:</b>	Monoclonal	<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1 kappa	<b>Species Reactivity:</b>	Human
<b>Immunogen:</b>	Ovalbumin-conjugated synthetic peptide from the C-terminal region of Human NSE		
<b>Format:</b>	100 µg in 100 µl PBS containing 0.02% sodium azide.		
<b>Storage Conditions:</b>	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
<b>Applications:</b>	ELISA   IHC   WB		

### Additional Information

<b>Subcellular location:</b>	Cell membrane, Cytoplasm	<b>MW:</b>	47kDa or 78kDa (Intended as a general guide and does not allow for all isoforms and species variations)
<b>Gene ID</b>	2026	<b>Uniprot ID:</b>	P09104



## References

Murray GI, Duncan ME, Melvin WT, Fothergill JE. Immunohistochemistry of neurone specific enolase with gamma subunit specific anti-peptide monoclonal antibodies. *J. Clin. Pathol.* 46:993-996, 1993.

Duncan ME, McAleese SM, Booth NA, Melvin WT, Fothergill JE. A simple enzyme-linked immunosorbent assay (ELISA) for the neuron-specific gamma isozyme of human enolase (NSE) using monoclonal antibodies raised against synthetic peptides corresponding to isozyme sequence differences. *J. Immuno. Methods* 151:227-236, 1992.