

## Anti-h NSE 9602 SPTN-5

### Product overview

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<b>Catalog number</b>	100408
<b>Specificity</b>	Antibody recognizes human neuron-specific enolase, $\gamma$ -isoform
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	36 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Neuron-specific enolase (NSE) has been detected in patients with certain tumors, namely: neuroblastoma, small cell lung cancer, medullary thyroid cancer, carcinoid tumors, pancreatic endocrine tumors, and melanoma. Studies of NSE as a tumor marker have concentrated primarily on patients with neuroblastoma and small cell lung cancer. Measurement of NSE levels in patients with these two diseases can provide information about the extent of the disease and the patient's prognosis, as well as about the patient's response to treatment.

### Parameters tested on each lot

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<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80–120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	7.2–8.0
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	$K_A = 2.2 \times 10^8$ 1/M
<b>Determination method</b>	SPR analysis (Biacore)
<b>Determination antigen</b>	NSE, Scripps Laboratories (Cat N0224)



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**Cross-reactivities** Recognizes NNE (non-neuronal enolase) < 1.4 %

**Epitope** Group B as described in Paus et al. (2011)

**Pair recommendations**

		DETECTION	
		9601	9602
CAPTURE	9601	-	+
	9602	+	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Platforms tested** FIA, CLIA

**Antigens tested** Recombinant NSE antigen, Medix Biochemica 610150, and native NSE antigen Medix Biochemica 430-11.

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

**Miscellaneous** Note that antibody binding requires Mg<sup>2+</sup>-ions and is sensitive to chelating agents (EDTA, EGTA, citrate).

**References** Paus, E., Hirzel, K., Lidqvist, M., Höyhty, M., and Warren, D.J. (2011) TD-12 workshop report: characterization of monoclonal antibodies to neuron-specific enolase. *Tumor Biol.* 32:819-829.



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