



## **Product specifications**

Name Anti-h NSE 9601 SPTN-5

Specificity Antibody recognizes human neuron-specific enolase,  $\gamma$ -isoform

Description Monoclonal mouse antibody, cultured *in vitro* under conditions free from animal-derived

components

Product code 100388

Product buffer solution 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN₃ as a preservative

Shelf life and storage 36 months from manufacturing at 2–8 °C

Subclass IgG<sub>1</sub>

Analyte description 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

Product appearance Liquid, may turn slightly opaque during storage

Product concentration 5.0 mg/ml (+/- 10 %)

 ${\color{red}Immunoreactivity} {\color{gray}80-120\,\%\,compared\,to\,the\,reference\,sample\,in\,an\,FIA\,test}$ 

IEF Profile 6.6–7.7

Purity ≥ 95 %

## Kinetic parameters

Association rate constant Not Determined (N/D)

Dissociation rate constant N/D

Affinity constant  $K_A = 4.3 \times 10^8 \text{ 1/M}$ 

Determination method SPR analysis (Biacore)

Determination antigen NSE, Scripps Laboratories (Cat N0224, Lot BF249001)





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Cross-reactivities Recognizes NNE (non-neuronal enolase) < 1.6 %

Epitope Group D 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 Lee

Biosolutions 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 Mg2+-ions and is sensitive to chelating agents (EDTA,

EGTA, citrate).

References Paus, E., Hirzel, K., Lidqvist, M., Höyhtyä, M., and Warren, D.J. (2011) TD-12 workshop report:

characterization of monoclonal antibodies to neuron-specific enolase. Tumor Biol. 32:819-829.