



# American MasterTech

scientific laboratory supplies

POST OFFICE BOX 2539 LODI, CALIFORNIA 95241 TELEPHONE: 1 (800) 860 4073 FACSIMILE: 1 (209) 368 4136

## Monoclonal Antibody to Neuron Specific Enolase (NSE)

### Technical Data Sheet

#### Reagent Category

Monoclonal primary antibody to NSE

#### Antibody Formats Supplied

- 7 ml of anti NSE, Ready-To-Use
- 0.2 ml of anti NSE, Concentrate

PRODUCT# IMI27961E (Ready-To-Use)

PRODUCT# IMI27952E (Concentrate)

**SOURCE:** Mouse ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** BBS/NC/VIH14

**POSITIVE CONTROL TISSUE:** Ganglioma or Pancreas

#### **REACTIVITY**

Neuron specific enolase (NSE), also known as gamma enolase is an isoenzyme that is expressed by neurons and neuroendocrine cells derived tissues as well as neoplasms of neuron-origin such as neuroendocrine tumors and neuroblastoma. NSE positive staining has been seen in tumors of lung and in small cell carcinomas. This Monoclonal NSE antibody is reactive  $\gamma$  enolase isoenzyme present on neurons and neuroendocrine cells. NSE antibody stains neurons ganglion cells, APUD cells as well as staining myelinated and non-myelinated nerve fibers. NSE antibody can be mildly reactive with megakaryocytes, platelets, T cells and striated and smooth muscle cells. This NSE antibody is reactive with human and mammalian species.

**STAINING PATTERN:** Cytoplasmic

#### **Antibody FORMAT, DILUTIONS and INCUBATIONS**

This affinity purified monoclonal NSE mouse antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.1% sodium azide.

**7ml Ready-to-Use, (do not dilute). Incubate for 30 minutes. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

*For Background-Free, gentle retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.*

**0.2ml of Concentrate; For paraffin section staining: Dilute 1:50 for 30-minute incubation.** The dilution factors are considerably higher for 1 hour to over-night incubation. The dilution factor for frozen section staining and other applications are also considerably higher and must be determined by the end user for the application and the secondary staining reagents employed. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

*For Background-Free, gentle retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.*

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***The above dilutions and incubation times were derived by the use of Innovex STAT-Q detection system. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.***

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of NSE antigens by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections of human or animal tissues for the purpose of qualitative localization of NSE antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with tissues of human and mammalian species has been substantiated; other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

## **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

***FOR PROFESSIONAL AND RESEARCH USE ONLY***