



Mouse anti Neuron Specific Enolase Monoclonal Antibody

Alternative Name(s): Neuron Specific Enolase; NSE; HEL-S-279, NEO2

Order Information

- **Description:** Neuron Specific Enolase (NSE)
- **Catalogue:** 500-6754
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ABM347
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

a synthetic peptide corresponding to amino acids 416-433. It recognizes the sequence LGDEARFAGHNFRNPSVL

BACKGROUND

Enolase is a cytoplasmic enzyme with three immunologically distinct subunits designated as alpha, beta, and gamma. There are five isoenzymes of enolase in normal human tissues. The gamma-subunit enolase, known as neuron-specific enolase (NSE), is expressed primarily in neurons, in normal and in neoplastic neuroendocrine cells. In normal tissues, most neurons and their axonal and dendritic processes stain strongly positive for NSE, with the exception of Purkinje cells. Schwann cells, cells of the adrenal medulla and paraganglia also contain NSE. Endocrine cells of the skin (Merkel's cells), respiratory and GI tract epithelium, pituitary parathyroid, pancreatic islets, and C cells of thyroid all stain positive for NSE. NSE has been demonstrated in ganglioneuromas, neuroblastomas, schwannomas and malignant melanomas. It is also present in pheochromocytomas and paragangliomas. Carcinoids, medullary thyroid carcinomas, pituitary adenomas, and endocrine tumors of the pancreas and GI tract all show positive immunoreactivity for NSE. NSE is found in neuroendocrine carcinoma of the skin (Merkel's cell tumor) and small cell carcinoma of the lung. A number of non-neuronal and non-endocrine tumors may also express NSE, including meningiomas, astrocytomas, renal cell carcinomas, carcinoma and fibroadenoma of the breast, carcinoma of the ovary, and malignant lymphomas. NSE positivity should not be relied upon entirely as evidence of the neuronal or neuroendocrine differentiation of a given neoplasm.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human Neuron Specific Enolase (NSE). The other species not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three months without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 78.0
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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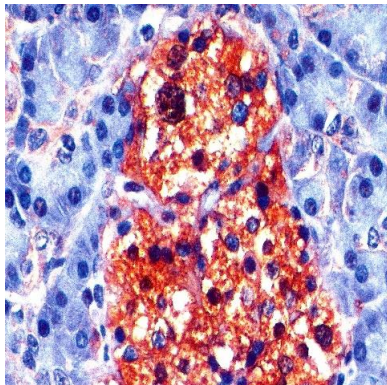
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Immunohistochemistry: The human nerve tissue (FFPE) stained with Mouse anti NSE monoclonal antibody (Cat#500-6754) at 1:100. (Note: formalin-fixed, paraffin-embedded sections need 15 minutes heat-induced epitope retrieval in 10 mM citrate buffer, pH 6.0, and 30 minutes incubation at room temperature with the primary antibody).

REFERENCES

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