

Mouse Anti-Neuron Specific Enolase (NSE/ENO2) [5E2]: MC0558, MC558RTU7

Intended Use: For Research Use Only

Description: NSE is specifically detected in neurons and neuroendocrine cells, and their corresponding tumors. Anti-NSE antibody is a useful marker for identification of peripheral nerves, neural and neuroendocrine tumors, such as neuroblastomas, retinoblastomas, desmoplastic melanoma, and small cell lung carcinoma when used with a panel of antibodies (e.g. keratin, chromogranin A, synaptophysin, and neurofilaments).

Specifications

Clone: 5E2
Source: Mouse
Isotype: IgG2a
Reactivity: Human
Localization: Cytoplasm
Formulation: Purified antibody in 0.2% BSA and 15mM sodium azide (NaN₃)
Storage: Store at 2°- 8°C.
Applications: IHC
Package:

Description	Catalog No.	Size
Neuron Specific Enolase (NSE/ENO2) Concentrated	MC0558	1 ml
Neuron Specific Enolase (NSE/ENO2) Prediluted	MC0558RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Neuroendocrine tumor, pancreas, cerebellum or pheochromocytoma. HepG2, SH-SY-5Y, HeLa or Y79 cells.
Concentrated Dilution: 100-200
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

References:

1. Antigenic phenotype of lung carcinomas: usual spectrum of distribution of thyroid transcription factor-1, cytokeratin 7, cytokeratin 20, and neuron specific enolase--basic immunohistochemical study of 21 cases. Kostovski M, et al. Pril (Makedon Akad Nauk Umet Odd Med Nauki). 35(1):199-207, 2014.
2. Increased neuron specific enolase expression by urothelial cells exposed to or malignantly transformed by exposure to Cd²⁺ or As³⁺. Soh M, et al. Toxicol Lett. Jul 7;212(1):66-74, 2012.
3. Chemiluminescence enzyme immunoassay using magnetic nanoparticles for detection of neuron specific enolase in human serum. Fu X, et al. Anal Chim Acta. Apr 13;722:114-8, 2012.
4. Predictive and prognostic significance of neuron-specific enolase (NSE) in non-small cell lung cancer. Tiseo M, et al. Anticancer Res. Jan-Feb;28(1B):507-13, 2008.