

**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**

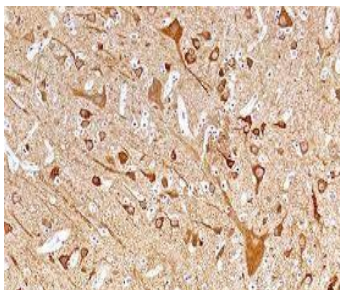
Clone: 5E2  
Source: Mouse  
Isotype: IgG2a  
Reactivity: Human  
Immunogen: Purified human Neuron specific Enolase  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, WB  
Package:

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  
Concentrated Dilution: 25-200  
Pretreatment: EDTA pH8.0, 15 minutes Pressure Cooker or 30-60 minutes 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.



FFPE human brain stained with anti-NSE using DAB

**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 Cd<sup>2+</sup> or As<sup>3+</sup>. 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.