ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Neuron Specific Enolase (NSE), Mouse MAb anti-human-

**Catalog number:** MM-1024-01 0.5 ml Concentrated IgG2a 0.2 mg/ml

MM-1024-02 1.0 ml Concentrated. IgG2a 0.2 mg/ml

MM-1024-04 7.0 ml Prediluted for IHC IgG2a 6µg/ml

**Buffer:** Protein A purified concentrated antibodies are supplied in PBS with 1% BSA, 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**:Neuron-specific Enolase (NSE) is a glycolytic isoenzyme which is located incentral and peripheral **neuron**s and neuroendocrine cells. NSE is homo- or hetrodimers of three subunits; α (46kDa), β (44kDa) and γ (46kDa). The subunit is expressed in most tissues, the β in muscle and the γ is expressed primarily in neuron, in normal and neoplastic neuroendocrine cells. NSE is a substance that has been detected in patients with certain tumors, namely: neuroblastoma, small cell lung cancer, medullary thyroid cancer, carcinoid tumors, pancreatic endocrine tumors, and melanoma. This clone, **5E2** reacts with NSE found primarily in neurons, neuroendocrine cell, striated and smooth muscle cells, megakaryocytes, T cells and some platelets. In neoplastic tissues, the antibody reacts with gangliomas, oat cell carcinoma, astrocytomas, paraganglomas, glioblastomas, pheochromocytomas, melanomas and schwannoma.

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC), WB

**Storage**: 2-8°C

**Clone**: NSE 224 **(5E2)** **Isotype:** IgG2a/κ

**Epitope:** This clone reacts with 47 kDa component of γγ Enolase isozyme.

**Immunogen:** Purified human Neuron specific Enolase (NSE)

**Molecular weight of antigen:** 47 kDa

**Species reactivity:** Human others not tested.

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human brain, pancreas or small intestine

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears)

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

*The optimum dilution should be determined by the individual lab.*

**General References**:

1. Blumenfeld, W et al. Archives of Pathology and Laboratory medicine, 120:478-481, 1996.
2. Cras P, et al. Acta Neuropathology. 75:377-384, 1988
3. Haimoto H et al. Laboratory Investigation. 52:257-263, 1985.
4. Shimizu A et al. BBA, 748:278-284, 1983.

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate laboratory gear, laboratory coat, gloves and safety glasses. Do not ingest any laboratory products. This product is not approved for administration in human or animals.

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