

36-2218: Anti-NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker) Monoclonal Antibody(Clone: NSE-P2)

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| Clonality : | Monoclonal |
| Clone Name : | NSE-P2 |
| Application : | IHC,FACS,IF |
| Reactivity : | Human |
| Gene : | ENO2 |
| Gene ID : | 2026 |
| Uniprot ID : | P09104 |
| Alternative Name : | 2-phospho-D-glycerate hydrolyase; ENO2; ENOG; Enolase 2 gamma neuronal; Enolase2; Gamma-enolase; Neural enolase; Neuron specific gamma enolase; Neuron-specific enolase; NSE |
| Isotype : | Mouse IgG1, kappa |
| Immunogen Information : | A synthetic peptide of human NSE gamma (around aa416-433) (exact sequence is proprietary) |

Description

This monoclonal antibody recognizes a protein of about 50kDa, which is identified as gamma-enolase. Three isoenzymes of enolases are identified, alpha, beta and gamma. Alpha-isoform is expressed in most tissues, whereas beta-form is expressed predominantly in muscle tissue whereas gamma-enolase is found only in nervous tissue. These isoforms exist as both homodimers and heterodimers, and they play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway. NSE-gamma is a useful marker to identify peripheral nerves and tumors of neuro-endocrine origins, such as pheochromocytomas. It is usually employed in combination with other markers such as Synaptophysin, Chromogranin A, and Neurofilament.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage condition : | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. |

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

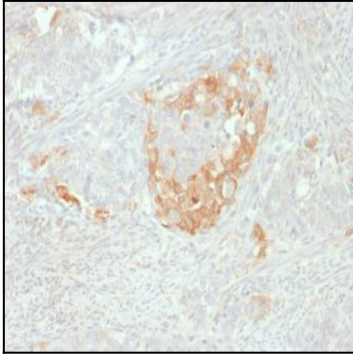


Fig. 1: Formalin-fixed, paraffin-embedded human Neuroendocrine tumor stained with NSE gamma Mouse Monoclonal Antibody (NSE-P2).

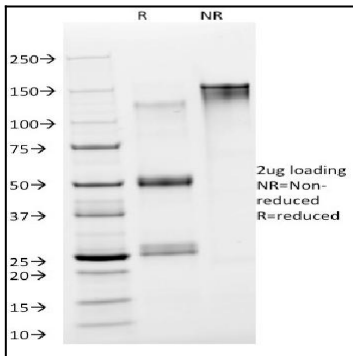


Fig. 2: SDS-PAGE Analysis Purified NSE gamma Mouse Monoclonal Antibody (NSE-P2). Confirmation of Purity and Integrity of Antibody.