

NSE Mouse Monoclonal Antibody

Catalog No: #38021

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Description

Product Name	NSE Mouse Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	1.30E+03
Purification	Affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Hu Ms Rt
Specificity	The NSE Mouse Monoclonal antibody detects endogenous NSE proteins.
Target Name	NSE
Other Names	2-phospho-D-glycerate hydro-lyase; 2-phospho-D-glycerate hydrolyase; ENO2; ENOG; Enolase 2
Accession No.	Swiss-Prot#:P09104
Uniprot	P09104
GeneID	2026;
SDS-PAGE MW	47kd
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

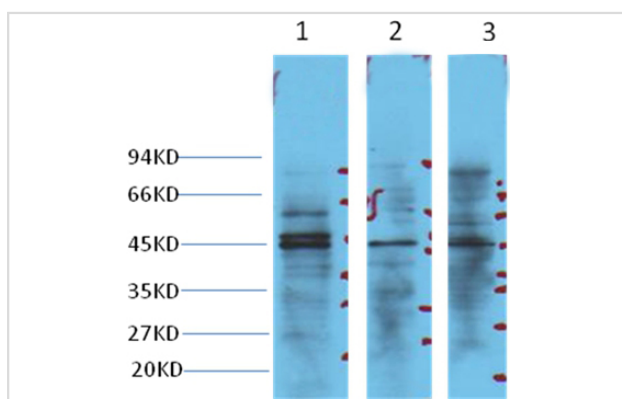
Application Details

WB dilution: 1:1000~1:3000

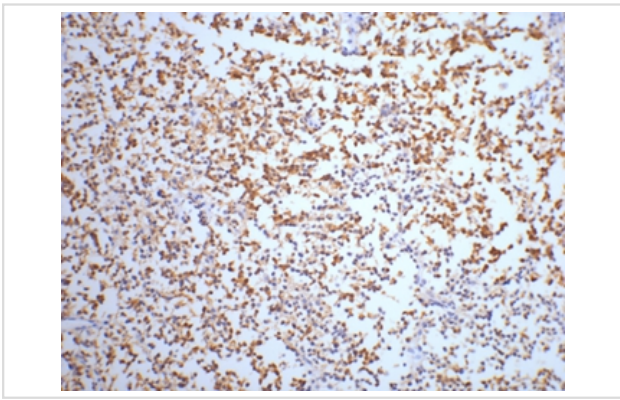
IHC dilution: 1:200

IF dilution:1:200

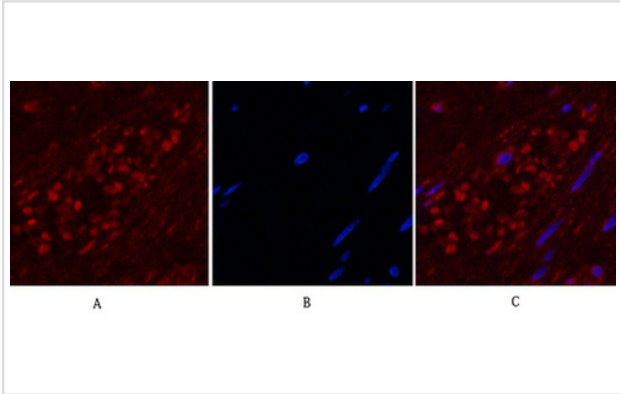
Images



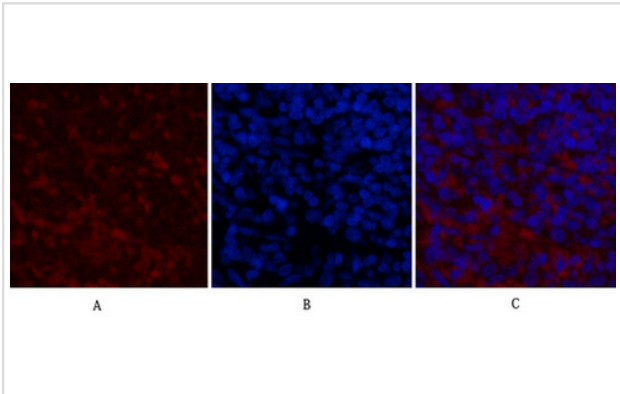
Western blot analysis of 1) Hela, 2) Jurkat, 3) 293T cell lysates, using #38021 diluted at 1:3,000.



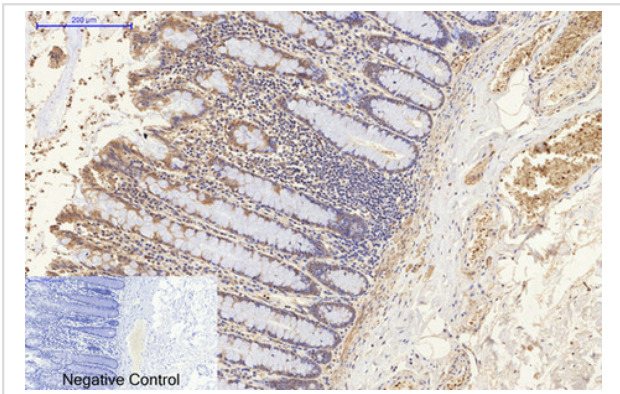
IHC staining of human breast cancer tissue with NSE mouse mAb(13E2) diluted at 1:200.



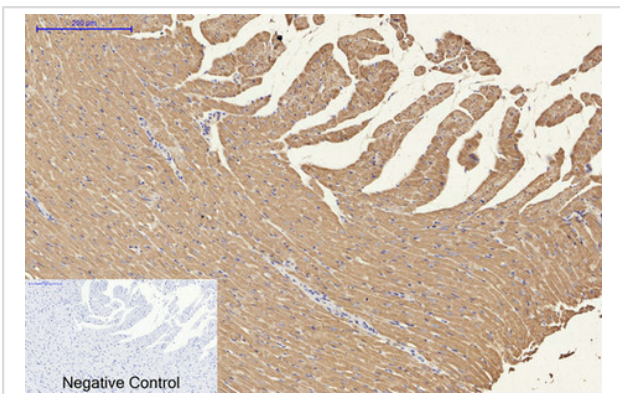
Immunofluorescence analysis of Human-appendix tissue. 1,NSE Monoclonal Antibody(13E2)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



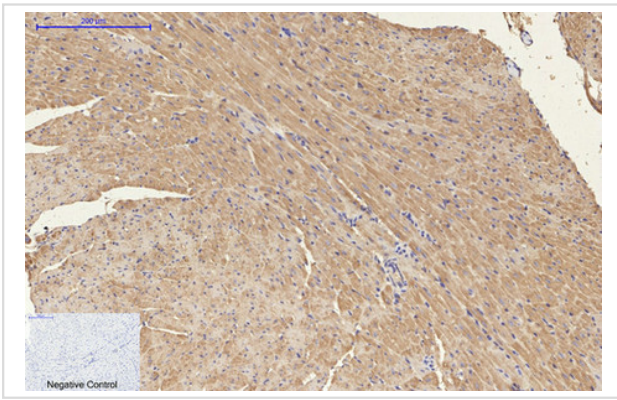
Immunofluorescence analysis of Mouse-spleen tissue. 1,NSE Monoclonal Antibody(13E2)(red) was diluted at 1:200(4C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,NSE Monoclonal Antibody(13E2) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-heart tissue. 1,NSE Monoclonal Antibody(13E2) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1,NSE Monoclonal Antibody(13E2) was diluted at 1:200(4C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.

Background

Enolase is a glycolytic enzyme catalyzing the reaction pathway between 2 phospho glycerate and phosphoenol pyruvate. In mammals, enolase molecules are dimers composed of three distinct subunits (alpha, beta and gamma). The alpha subunit is expressed in most tissues and the beta subunit only in muscle. The gamma subunit is expressed primarily in neurons, in normal and in neoplastic neuroendocrine cells. NSE (neuron specific enolase) is found in elevated concentrations in plasma in certain neoplasias. These include pediatric neuroblastoma and small cell lung cancer. Coexpression of NSE and chromogranin A is common in neuroendocrine neoplasms.

Note: This product is for in vitro research use only