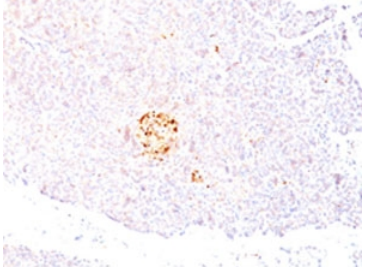
NSE Antibody [clone NSEL1-1] (V7210)

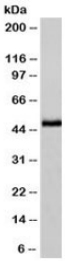
Catalog No.	Formulation	Size
V7210-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7210-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7210SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	NSEL1-1
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P09104
Gene ID	2026
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This NSE antibody is available for research use only.



IHC testing of FFPE human pancreas with NSE antibody (clone NSEL1-1). Staining of FFPE tissue requires boiling sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human HeLa cell lysate with NSE antibody (clone NSEL1-1). Predicted molecular weight ~47 kDa.

Description

Recognizes a protein of about 50kDa, which is identified as gamma-enolase/neuron specific enolase/enolase 2. 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 and 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 phosphenolpyruvic acid in the glycolytic pathway. NSE is a useful marker to identify peripheral nerves and tumors of neuro-endocrine origins, such as pheochromocytomas. It it be usually employed in combination with other markers such as Synaptophysin, Chromogranin A, and Neurofilament.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the NSE antibody to be titered up or down for optimal performance.

Immunogen

Amino acids 416-433 of human Neuron-specific Enolase were used as the immunogen for this NSE antibody.

Storage

Store the NSE antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).