



**Mouse Anti-Human Neuron Specific
Enolase (NSE), monoclonal**

CatNo

K023

BatchNo: See Label
Expiration Date: See Label
Storage: 2-8 °C

DO NOT FREEZE!

Clone Number:	MIG-N3
Volume/Quantity:	500 µl
Product Form:	Ascites - liquid
Buffer:	Phosphate buffered saline pH7.6
Preservatives Stabilisers:	0,09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin (BSA)
Approx. Protein Concentrations:	IgG concentration 12 mg/ml
Immunogen:	Purified human gamma enolase
Fusion Partners:	Spleen cells from an immunised BALB/c mouse were fused with cells of the mouse NS1 myeloma cell line.
Isotype:	IgG1 (Mouse)
Specificity:	In normal tissues, most neurons and their axonal and dendritic processes stain strongly positive for NSE, with the exception of Purkinje's cells. Schwann's cells, cells of the adrenal medulla and paraganglia also contain NSE. Endocrine cells of the skin (Merkel's cells), respiratory and GI tract epithelium, pituitary parathyroid, pancreas islets, and C cells of the thyroid all stain positive for NSE. NSE has been demonstrated in ganglioneuromas, neuroblastomas, Schwannomas and malignant melanomas. It is also present in pheochromocytomas and paragangliomas. Carcinoids, medullary thyroid carcinomas, pituitary adenomas, and endocrine tumors of the pancreas and GI tract all show positive immunoreactivity for NSE. NSE is found in neuroendocrine carcinoma of the skin (Merkel's cell tumor) and small cell carcinoma of the lung. A number of non-neuronal and non-endocrine tumors may also express NSE, including meningiomas, astrocytomas, renal cell carcinomas, carcinoma and fibroadenoma of the breast, carcinoma of the ovary, and malignant lymphomas. NSE positivity should not be relied upon entirely as evidence of the neuronal or neuroendocrine differentiation of a given neoplasm
Species Cross Reactivity:	Human, guinea pig.

Applications:

Suggested Working Dilution

Application	Result	Suggested Working Dilution
FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/100 – 1/200
Immunohistology-paraffin	Yes	1/100 – 1/200
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Yes	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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Manufacturer



BIOZOL

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Mouse Anti-Human Neuron Specific

CatNo

K023

Enolase (NSE), monoclonal

Immunohistology

Pre-treatment:	This product does not require protein digestion pre-treatment of paraffin sections
Positive Control Tissue:	Intestine or Pancreas
Recommended Secondary Reagents:	F(ab') ₂ rabbit anti-mouse IgG HRP conjugate – (LINARIS CatNo LST0013B) Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Vectastain [®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
Recommended Negative Controls:	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

Westernblotting

Chemiluminescent Substrate:	DuoLuX Chemiluminescent Substrate for Alkaline Phosphatase (AP) (Vector CatNo SK-6605) and Peroxidase (POD) (Vector CatNo SK-6604).
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References

1. DeStephano, D.B., Lloyd, R.V., Pike, A.N., Wilson, B.S. (1984). Pituitary Adenomas: An immunohistochemical study of hormone production and chromogranin. *Am. J. Pathol.* 116: 464.
2. Lloyd, R.V. and Wilson, B.S. (1983) Specific endocrine tissue marker defined by a monoclonal antibody. *Science* 222: 628
3. Lloyd R.V., Mervak T., Schmidt K., Warner T., Wilson B.S. (1984). Immunohistochemical detection of chromogranin and neuron-specific enolase in pancreatic endocrine neoplasms. *Am. J. Surg. Pathol.* 8: 607.
4. Walts, A.E., Said, J.W., Shintaku, P. and Lloyd, R.V.: (1985). Chromogranin as a marker of neuroendocrine cells in cytologic material - an immunocytochemical study. *Am. J. Clin. Pathol.* 84: 273-277.
5. Wilson, B.S., and Lloyd, R.V. (1984). Detection of chromogranin in neuroendocrine cells with a monoclonal antibody. *Am. J. Pathol.* 115: 458.

Storage Conditions:	Store at 2-8°C. DO NOT FREEZE! Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life:	12 months from date of despatch.
Health and Safety Information:	(A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

