

Mouse anti-NSP-C, clone RNL-4, Purified (Monoclonal)

Clone no. RNL-4

MONOSAN

Product name	Mouse anti-NSP-C, clone RNL-4, Purified (Monoclonal)
Host	Mouse
Applications	FC (1:50-1:100), ICC, IHC-fr (1:100), IHC-p (1:100), WB (1:100-1:500)
Species reactivity	human, rat, swine
Conjugate	-
Immunogen	synthetic peptide encompassing the unique 20 N-terminal amino acid sequence of Reticulon-1C
Isotype	IgG1
Clonality	Monoclonal
Clone number	RNL-4
Size	100 µg
Concentration	1 mg/ml
Format	-
Storage buffer	PBS with 0.09% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

In lung cancer diagnosis Reticulon-1A appeared to be a reliable marker for the detection of neuroendocrine differentiation, since most of the small cell lung carcinoma (SCLC) and carcinoid tumors showed expression of Reticulon-1A. Reticulon-1B is a phosphoprotein with a MW of 45 kDa and is restricted to the lung cancer cell line NCI-H82. Reticulon-1B is so far not found in Human tissues. Reticulon-1C is a protein with a MW of 23 kDa which is not phosphorylated and is found with Reticulon-1A in SCLC (cell lines) and not in non-SCLC (cell cultures). RNL-4 reacts with peripheral nerves and ganglia of various tissues and cross-reacts with smooth muscle cells and myoepithelium. In the central nervous system it reacts with the neurohypophysis and pars intermedia of the pituitary gland, and a weak diffuse staining was observed in neurons of the granular and molecular layer of the cerebellar cortex, while glial cells, cerebellar medulla and Purkinje cells are negative. Reticulon-1 has been found to indicate neuronal differentiation and to be downregulated in neurological pathologies.

References

1. Senden et al. Eur J Cell Biol 1996;69:197-213
2. Senden et al. J Pathol 1997;182:13-21
3. Hens et al. Cell Tissue Res 1998;292:229-237
4. Kim et al. Biochem Biophys Res Comm 2000;276:329-334
5. -

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