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Nordic MUbio

Mouse anti NCAM / CD56

Catalogue number: **MUB1300P**

Clone	RNL-1
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human Mouse
Application	Immunocytochemistry Immunohistochemistry (frozen)

Distributors

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Background

NCAM / CD56, as a member of the immunoglobulin superfamily of adhesion molecules is characterized by several immunoglobulin (Ig)-like domains. The extracellular part of NCAM consists of five of these Ig domains and two fibronectin type III homology regions. NCAM is encoded by a single copy gene composed of 26 exons. However, at least 20-30 distinct isoforms can be generated by alternative splicing and by posttranslational modifications, such as sialylation. During sialylation, polysialic acid (PSA) carbohydrates are attached to the extracellular part of NCAM. Through its extracellular region, NCAM mediates homophilic interactions. In addition, NCAM can also undergo heterophilic interactions by binding extracellular matrix components, such as laminin, or other cell adhesion molecules, such as integrins. NCAM can be found in central and peripheral nerve cells, neuroendocrine tissues and at the surface of NK-cells. Also, NCAM is present in malignancies derived from these tissues and cells.

Source

RNL-1 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with the small cell lung cancer cell line NCI-H82.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

RNL-1 is suitable for immunocytochemistry and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration; recommended range is

1:100 – 1:200 for immunohistochemistry with fluorochrome conjugated secondary antibodies or avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent.

Specificity

RNL-1 was defined as a cluster I antibody during the Second International Workshop on Small Cell Lung Cancer (SCLC) Antibodies and recognizes the extracellular region of NCAM / CD56.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. Broers, J. L., Mijnheere, E. P., Rot, M. K., Schaart, G., Sijlmans, A., Boerman, O. C., and Ramaekers, F. C. (1991). Novel antigens characteristic of neuroendocrine malignancies, Cancer 67, 619-33.
2. Mijnheere, E. P., Boerman, O. C., Broers, J. L., Klein Rot, M., Vooijs, G. P., and Ramaekers, F. C. (1991). Immunotargeting of Human small cell lung cancer xenografts in athymic mice using a monoclonal antibody (RNL-1) anti a neuroendocrine- related antigen, Br J Cancer Suppl 14, 78-81.
3. Boerman, O. C., Mijnheere, E. P., Broers, J. L., Vooijs, G. P., and Ramaekers, F. C. (1991). Biodistribution of a monoclonal antibody (RNL-1) anti the neural cell adhesion molecule (NCAM) in athymic mice bearing Human small-cell lung-cancer xenografts, Int J Cancer 48, 457-62.
4. Mijnheere, E. P., Boerman, O. C., Poels, L. G., Slobbe, R. L., van Eys, G. J. J. M., and Ramaekers, F. C. S. (1996). Pharmacokinetics, biodistribution and dosimetry of anti-NCAM monoclonal antibody RNL-1 and its fragments in experimental lung cancer, Journal of Experimental and Clinical Cancer Research 15, 11-18.
5. Hens, J., Nuydens, R., Geerts, H., Senden, N. H., Van de Ven, W. J., Roebroek, A. J., van de Velde, H. J., Ramaekers, F. C., and Broers, J. L. (1998). Neuronal differentiation is accompanied by NSP-C expression, Cell Tissue Res 292, 229-37.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.