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Diagnostik & molekulare Diagnostik



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Mouse anti Vimentin, conjugated with FITC

 nordicmubio.com/products/mouse-anti-vimentin-conjugated-with-fitc/MUB1900L1

Catalog number: **MUB1900L1**

Clone	RV202
Isotype	IgG1
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Species Reactivity	Canine Caprine Chicken Hamster Human Monkey Mouse Rat Swine Xenopus Zebrafish
Application	Flow Cytometry Immunocytochemistry Immunohistochemistry (frozen)

Background

Vimentin (57 kDa) is the intermediate filament protein (IFP) of mesenchymal cells. This IFP however often deviates from the tissue-specific and developmentally regulated pattern of expression. Besides its typical expression in most cultured cells, vimentin is also expressed together with several other IFPs during early stages of development. As differentiation proceeds, vimentin is exchanged for the tissue-specific intermediate filament type. Also in cancers, vimentin is often expressed in addition to the tissue-specific IFP.

Source

RV202 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 a cytoskeletal vimentin extract of calf lens.

Product

Each vial contains 1ml FITC-conjugated vimentin monoclonal antibody in PBS containing 0,1% BSA, 0.09% sodium azide. Approximately 100 tests.

Product Form: FITC

Formulation: Each vial contains 1ml FITC-conjugated vimentin monoclonal antibody in PBS containing 0,1% BSA, 0.09% sodium azide. Approximately 100 tests.

Specificity

RV202-FITC reacts exclusively with vimentin, which is expressed in mesenchymal cells and mesenchymal derived tumors e.g. lymphoma, sarcoma and melanoma. RV202-FITC is suitable for immunocytochemistry on cell cultures and cytopins, immunohistochemistry on frozen tissues, as well as for flow cytometry. Optimal antibody dilution should be determined by titration; recommended dilution is 1:10.

Storage

The antibody is shipped at ambient temperature and may be stored at +4°C. For prolonged storage prepare appropriate aliquots and store at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.

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. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

1. Ramaekers, F., Huysmans, A., Schaart, G., Moesker, O., and Vooijs, P. (1987). Tissue distribution of Keratin 7 as monitored by a monoclonal antibody, *Exp Cell Res* 170, 235-49.
2. Viebahn, C., Lane, E. B., and Ramaekers, F. C. (1988). Keratin and vimentin expression in early organogenesis of the rabbit embryo, *Cell Tissue Res* 253, 553-62.
3. Pieper, F. R., Schaart, G., Krimpenfort, P. J., Henderik, J. B., Moshage, H. J., van de

Kemp, A., Ramaekers, F. C., Berns, A., and Bloemendal, H. (1989). Transgenic expression of the muscle-specific intermediate filament protein desmin in nonmuscle cells, *J Cell Biol* 108, 1009-24. 4. Raats, J. M., Pieper, F. R., Vree Egberts, W. T., Verrijp, K. N., Ramaekers, F. C., and Bloemendal, H. (1990). Assembly of amino-terminally deleted desmin in vimentin-free cells, *J Cell Biol* 111, 1971-85. 5. Ramaekers, F., van Niekerk, C., Poels, L., Schaafsma, E., Huijsmans, A., Robben, H., Schaart, G., and Vooijs, P. (1990). Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas, *Am J Pathol* 136, 641-55.

Safety Datasheet(s) for this product:

NM_Sodium Azide



Immunofluorescence staining of frozen section of human colon using MUB1900L1. Note reactivity in connective tissue while epithelial cells remain negative.