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Mouse anti Desmin

Catalogue number: **MUB0403P**

Clone	D33
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Chicken Hamster Human Rat
Application	Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Distributors

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Background

Desmin is a 53 kDa intermediate filament protein that exhibits a high degree of tissue specificity, its expression being predominantly confined to all types of muscle cells (cardiac, skeletal and smooth muscle). Regulation of desmin expression is stage and tissue-specific, since it is induced during terminal development. In skeletal and cardiac muscle cells desmin is localized in the Z-disk region and at the intercalated disk. The expression pattern of desmin in smooth muscle is much more heterogeneous. Coexpression of vimentin and desmin has been observed in tumors derived from muscle tissue, i.e. rhabdomyosarcomas and leiomyosarcomas. Furthermore, during myocard dysfunction dramatic changes in the distribution of desmin have been observed.

Source

D33 is a mouse monoclonal IgG1 antibody derived by fusion of mouse myeloma cells with spleen cells from a BALB/c mouse immunized with purified desmin from a leiomyosarcoma.

Product

Each vial contains 100ul 1mg/ml purified monoclonal antibody in phosphate buffered saline (PBS) containing 0.09% sodium azide

Applications

The D33 antibody is suitable for the detection of desmin by Western blotting and detects a band of 53kDa in muscle tissue

extracts. The antibody is also suitable for the detection of desmin by immunocytochemistry on permeabilized cells, and Immunohistochemistry on frozen and formalin fixed, paraffin embedded tissues. The antibody works on paraffin-embedded material without pretreatment with proteolytic enzymes, but the section should be pre-treated using heat mediated antigen retrieval with Tris-buffer containing 1 mM EDTA, pH 9,0 for 20 mins. Optimal antibody dilutions for the different applications should be determined by titration.

Specificity

The antibody D33 reacts exclusively with desmin, which is expressed in smooth and striated muscle cells and their tumors e.g. rhabdomyosarcoma and leiomyosarcoma in human, hamster, rat and chicken. The antibody does not cross react with vimentin or any of the other intermediate filament proteins.

Storage

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

References

1. Van Muijen GN, Ruiter DJ, Warnaar SO. (1987) Coexpression of intermediate filament polypeptides in human fetal and adult tissues. *Lab Invest.* 57:359-69
2. Pollock L, Rampling D, Greenwald SE, Malone M. (1995) Desmin expression in rhabdomyosarcoma: influence of the desmin clone and immunohistochemical method. *J Clin Pathol.* 48:535-8.
3. Fetsch JF, Miettinen M, Laskin WB, Michal M, Enzinger FM. (2000) A clinicopathologic study of 45 pediatric soft tissue tumors with an admixture of adipose tissue and fibroblastic elements, and a proposal for classification as lipofibromatosis. *Am J Surg Pathol.* 24:1491-500.
4. Chang TK, Li CY, Smithson WA. (1989) Immunocytochemical study of small round cell tumors in routinely processed specimens. *Arch Pathol Lab Med.* 113:1343-8.
5. Pohar-Marinsek Z, Srebotnik-Kirbis I. (2000) Desmin detection in FNAB samples of rhabdomyosarcoma: an immunocytochemical study. *Cytopathology* 11:171-8.

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.