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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



Mouse anti Desmin

Catalogue number: **MUB0400P**

Clone	RD301
Isotype	IgG2b
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Chicken Dog Hamster Human Mouse Rabbit Rat Swine Zebrafish
Application	Immunoblotting Immunocytochemistry Immunohistochemistry (frozen)

Distributors

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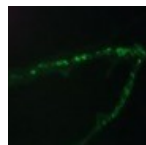
Background

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 of, for example, skeletal muscle cell differentiation. In skeletal en 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 heterogenous. 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

RD301 is a Mouse monoclonal IgG2b antibody derived by fusion of SP2/0-Ag14 Mouse

Figure 1
Immunofluorescence staining of a 7 days old zebrafish embryo,



myeloma cells with spleen cells from a Mouse immunized with a cytoskeletal extract of Chicken gizzard.

Product

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

Applications

RD301 is suitable for immunoblotting, immunocytochemistry on permeabilised cells and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration; recommended range is 1:100 – 1:200 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

Specificity

RD301 reacts exclusively with desmin, which is expressed in smooth and striated muscle cells and their tumors e.g. rhabdomyosarcoma and leiomyosarcoma.

Storage

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

References

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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.