

Datasheet for ABIN335360

anti-Desmin antibody

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Overview

Quantity:	0.1 mg
Target:	Desmin (DES)
Reactivity:	Human, Mouse, Rat, Chicken, Hamster, Pig, Dog, Rabbit, Zebrafish (Danio rerio)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Desmin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	RD301 is a mouse monoclonal IgG2b antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a mouse immunized with a cytoskeletal desmin extract of chicken gizzard.
Clone:	RD301
Isotype:	IgG2b
Specificity:	Human, mouse, rat, rabbit, hamster, canine, chicken and swine.
Purification:	Purified

Target Details

Target:	Desmin (DES)
Alternative Name:	Desmin (DES Products)

Target Details

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.

Application Details

Application Notes: RD301 reacts exclusively with desmin, which is expressed in smooth and striated muscle cells and their tumors e.g. rhabdomyosarcoma and leiomyosarcoma. RD301 is suitable for immunoblotting 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.

Restrictions: For Research Use only

Handling

Storage: 4 °C

Publications

Product cited in: Council, Hameed: "Differential expression of immunohistochemical markers in bladder smooth muscle and myofibroblasts, and the potential utility of desmin, smoothelin, and vimentin in staging of bladder carcinoma." in: **Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc**, Vol. 22, Issue 5, pp. 639-50, (2009) ([PubMed](#)).

Dispersyn, Geuens, Ver Donck, Ramaekers, Borgers: "Adult rabbit cardiomyocytes undergo hibernation-like dedifferentiation when co-cultured with cardiac fibroblasts." in: **Cardiovascular research**, Vol. 51, Issue 2, pp. 230-40, (2001) ([PubMed](#)).

Schaart, Pieper, Kuijpers, Bloemendal, Ramaekers: "Baby hamster kidney (BHK-21/C13) cells can express striated muscle type proteins." in: **Differentiation; research in biological diversity**,

Vol. 46, Issue 2, pp. 105-15, (1991) ([PubMed](#)).

Raats, Pieper, Vree Egberts, Verrijp, Ramaekers, Bloemendal: "Assembly of amino-terminally deleted desmin in vimentin-free cells." in: **The Journal of cell biology**, Vol. 111, Issue 5 Pt 1, pp. 1971-85, (1990) ([PubMed](#)).

Schaart, Viebahn, Langmann, Ramaekers: "Desmin and titin expression in early postimplantation mouse embryos." in: **Development (Cambridge, England)**, Vol. 107, Issue 3, pp. 585-96, (1990) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images

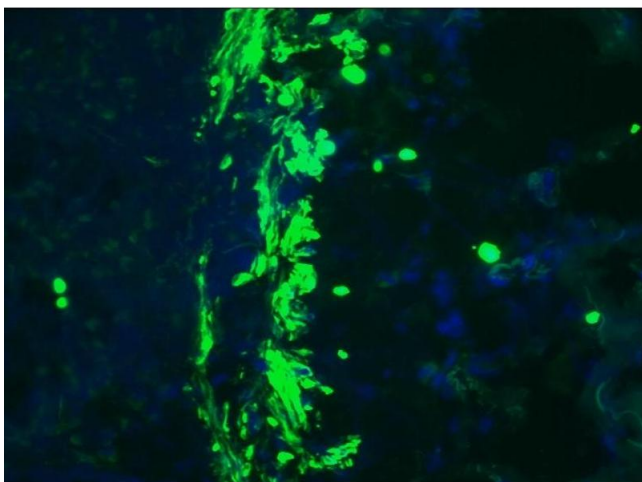


Image 1.

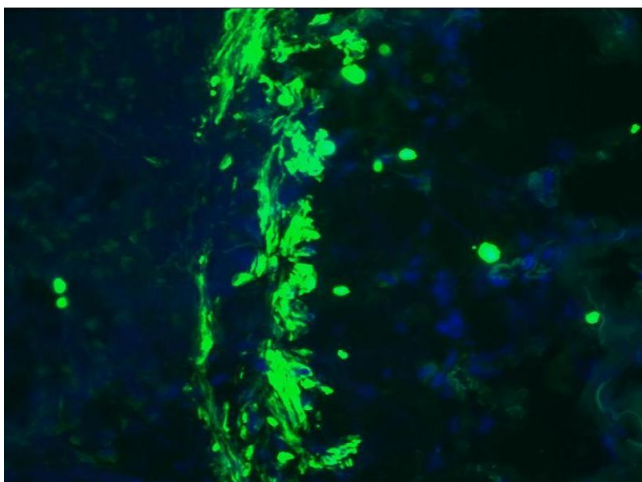
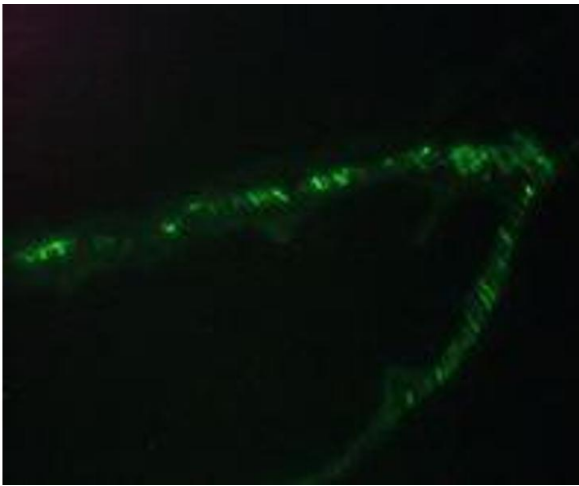


Image 2.



Immunofluorescence

Image 3. Immunofluorescence staining of a 7 days old zebrafish embryo