



Product Information Sheet

Monoclonal Anti-Desmin

Catalogue No. MA1036

Lot No. 08A12

Clone: DES-82

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

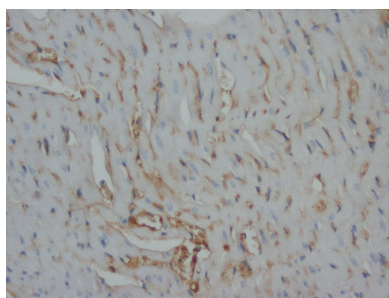
Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)



Immunogen

Desmin from pig stomach.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2µg/ml with the appropriate system to detect desmin in cells and tissues.

Immunohistochemistry(P)

At 2-4µg/ml to detect desmin in formalin fixed and paraffin embedded tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

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BACKGROUND

Desmin belongs to the type III family of intermediate filaments, a class of cytoskeletal elements. DES gene encodes desmin, a muscle-specific cytoskeletal protein found in smooth, cardiac, and heart muscles. Tidball (1992) found that desmin was codistributed with actin thin filaments within the cellular processes of myotendinous junctions in frog skeletal muscle. DES gene contains 9 exons and spans about 8.4 kb. By in situ hybridization, Viegas-Pequignot et al. (1989) localized the gene to 2q35. Desmin mutation responsible for idiopathic dilated cardiomyopathy.

REFERENCE

- 1 Tidball, J. G. : *Desmin at myotendinous junctions. Exp. Cell Res.* 199: 206-212, 1992.
- 2 Viegas-Pequignot, E.; Lin, L. Z.; Dutrillaux, B.; Apiou, F.; Paulin, D. : *Assignment of human desmin gene to band 2q35 by nonradioactive in situ hybridization. Hum. Genet.* 83: 33-36, 1989.
- 3 Li, D.; Tapscoft, T.; Gonzalez, O.; Burch, P. E.; Quinones, M. A.; Zoghbi, W. A.; Hill, R.; Bachinski, L. L.; Mann, D. L.; Roberts, R. : *Desmin mutation responsible for idiopathic dilated cardiomyopathy. Circulation* 100: 461-464, 1999.