

Monoclonal Anti- Desmin Antibody

Catalog Number: MA1036

Description

Lot No.	08A12
Clone	DE-U-10
Size	100µg/vial
Form	lyophilized
Ig type	mouse IgG1
Specificity	No cross reactivity with other proteins.
Species	Human, mouse, rat, rabbit
Immunogen	Desmin from pig stomach
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	2µg/ml	Human, Mouse, Rat, Rabbit	-
Immunohistochemistry (Paraffin-embedded Section)	2-4µg/ml	Human, Mouse, Rat, Rabbit	By Heat

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

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 a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1001 in WB, supported by SA1021 in IHC(P).

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.