



## Product Information Sheet

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### Monoclonal Anti-Desmin (Sephacrose Bead Conjugate)

**Catalogue No.** MA1036-S

**Lot No.** 08A12

**Clone:** DES-82

**Ig type:** mouse IgG1

**Size:** 200µl

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Immunogen**

Desmin from pig stomach.

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

**Recommended application**

*Immunoprecipitation(IP)*

**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.