



Product Information Sheet

Monoclonal Anti-Dystrophin - conjugated to Magnetic Beads

Catalogue No. MA1037-M

Lot No. 08A12

Clone: DYS-48

Ig type: mouse IgG2b

Size: 200µl

Specificity

Human, mouse, rat, chicken.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

Recombinant human dystrophin fragment.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

BACKGROUND

Dystrophin(DMD) gene has 79 exons spanning at least 2,300 kb (2.3 Mb). The C terminus of the dystrophin protein is encoded by a highly conserved, alternatively spliced region of the gene. beta-dystroglycan binding activity is expressed by the dystrophin fragment spanning amino acids 3026-3345 containing the ZZ domain. DMD transcript is formed by at least 60 exons; the first half of the transcript is formed by a minimum of 33 exons spanning nearly 1000 kb, and the remaining portion has at least 27 exons that may spread over a similar distance. Dystrophin gene is expressed at a higher level in primary cultures of neuronal cells than in astro-glial cells derived from adult mouse brain. overexpression of dystrophin prevents the development of the abnormal mechanical properties associated with dystrophic muscle without causing deleterious side effects.

REFERENCE

- 1 Chelly, J.; Hamard, G.; Koulakoff, A.; Kaplan, J.-C.; Kahn, A.; Berwald-Netter, Y. : Dystrophin gene transcribed from different promoters in neuronal and glial cells. *Nature* 344: 64-65, 1990.
- 2 Cox, G. A.; Cole, N. M.; Matsumura, K.; Phelps, S. F.; Hauschka, S. D.; Campbell, K. P.; Faulkner, J. A.; Chamberlain, J. S. : Overexpression of dystrophin in transgenic mdx mice eliminates dystrophic symptoms without toxicity. *Nature* 364: 725-729, 1993.

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