Product Information Sheet

## Monoclonal Anti-Dystrophin (Sepharose Bead Conjugate)

**Catalogue No.** MA1037-S
**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**
50% slurry in PBS pH 7.2 with 0.01mg $NaN_3a_3$ 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.

**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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