Product Information Sheet

Monoclonal Anti-β-Actin(Magnetic Bead conjugate)

Catalogue No. MA1115-M

Lot No. 08A12

Clone: AC-15

Ig type: mouse IgG1

Size: 200µl

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Immunogen

slightly modified β-cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH.

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 NaN_3.

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

The primary site of action of cytochalasin B on cell motility processes is beta-actin. Habets et al. (1992) generated hybrids that harbor only specific regions of human chromosome 7 and assigned the ACTB locus to 7p15-p12. ACTB and the other assigned beta-actin-related sequences are dispersed over at least four different chromosomes including one locus assigned to the X chromosome. A mutation of beta-actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia.

REFERENCE

1. Ng, S.-Y.; Gunning, P.; Eddy, R.; Ponte, P.; Leavitt, J.; Kedes, L.; Shows, T. : Chromosome 7 assignment of the human beta-actin functional gene (ACTB) and the chromosomal dispersion of pseudogenes. (Abstract) Cytogenet. Cell Genet. 40: 712 only, 1985.

2. Procaccio, V.; Salazar, G.; Ono, S.; Styers, M. L.; Gearing, M.; Davila, A.; Jimenez, R.; Juncos, J.; Gutekunst, C.-A.; Meroni, G.; Fontanella, B.; Sontag, E.; Sontag, J. M.; Faundez, V.; Wainer, B. H. : A mutation of beta-actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia. Am. J. Hum. Genet. 78: 947-960, 2006.

3. Ng, S.-Y.; Gunning, P.; Eddy, R.; Ponte, P.; Leavitt, J.; Shows, T.; Kedes, L. : Evolution of the functional human beta-actin gene and its multi-pseudogene family: conservation of the noncoding regions and chromosomal dispersion of pseudogenes. Molec. Cell. Biol. 5: 2720-2732, 1985.

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