



Product Information Sheet

Monoclonal Anti-Tropomyosin (Sarcomeric) - Magnetic Bead Conjugate

Catalogue No. MA1097-M

Immunogen

Chicken muscle tropomyosin.

Lot No. 08A12

Purification

Clone: ST-39

Purified by the goat anti-mouse IgG affinity chromatography.

Ig type: mouse IgG1

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3 .

Size: 200 μ l

Storage

Store at 4°C for frequent use.

Specificity

Human, rat, chicken.

No cross reactivity with other proteins.

Description

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

Recommended application

Immunoprecipitation(IP)

BACKGROUND

Tropomyosin is an alpha-helical, parallel, two-chain coiled coil which binds along the length of actin filaments in both muscle and non-muscle cells. This gene associates N-terminus to C-terminus to form a continuous strand along both sides of the actin filament and regulates its function. Tropomyosin contributes to most, if not all, functions of the actin cytoskeleton, and its role is essential for the viability of a wide range of organisms. The ability of tropomyosin to contribute to the many functions of the actin cytoskeleton is related to the temporal and spatial regulation of expression of tropomyosin isoforms.

REFERENCE

1. Coulton AT, Koka K, Lehrer SS, Geeves MA. Role of the Head-to-Tail Overlap Region in Smooth and Skeletal Muscle beta-Tropomyosin. *Biochemistry*. 2008 Jan 8;47(1):388-97. Epub 2007 Dec 11.
2. Singh A, Hitchcock-Degregori SE. Tropomyosin's Periods Are Quasi-Equivalent for Actin Binding but Have Specific Regulatory Functions. *Biochemistry*. 2007 Dec 25;46(51):14917-14927. Epub 2007 Dec
3. Gunning P, O'Neill G, Hardeman E. Tropomyosin-based regulation of the actin cytoskeleton in time and space. *Physiol Rev*. 2008 Jan;88(1):1-35.

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