



## Product Information Sheet

### Monoclonal Anti-Tropomyosin (Sarcomeric) (Sephacose Bead Conjugate)

**Catalogue No.** MA1097-S

**Immunogen**

Chicken muscle tropomyosin.

**Lot No.** 08A12

**Purification**

**Clone:** ST-39

Purified by the goat anti-mouse IgG affinity chromatography.

**Ig type:** mouse IgG2a

**Formulation**

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

**Size:** 200µl

**Storage**

Store at 4°C for frequent use.

**Specificity**

Human, rat, chicken.

No cross reactivity with other proteins.

**Description:**

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

**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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