



## Product Information Sheet

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### Monoclonal Anti-Tropomyosin (36/39 kDa)

**Catalogue No.** MA1095

**Immunogen**

Chicken gizzard tropomyosin.

**Lot No.** 08A12

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Clone:** TM-33

**Ig type:** mouse IgG1

**Application**

*Western blot*

**Size:** 100µg/vial

At 2-4µg/ml with the appropriate system to detect tropomyosin in cells and tissues.

**Specificity**

Human, mouse, rat, chicken.

*Other applications have not been tested.*

No cross reactivity with other proteins.

*Optimal dilutions should be determined by end user.*

**Formulation**

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

**Recommended application**

*Western blot*

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

**To reorder contact us at:**

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

### BACKGROUND

The tropomyosins are a family of actin filament binding proteins. These proteins were first isolated from skeletal muscle, but later identified in many nonmuscle tissues. Tropomyosins are ubiquitous proteins of 35 to 45 kD associated with the actin filaments of myofibrils and stress fibers. Vertebrates have at least 4 different tropomyosin genes; in humans, they are named TPM1, TPM2, TPM3, and TPM4. Tropomyosins expressed as different isoforms in muscle and non-muscle cells.

### REFERENCE

1. Lees-Miller, J. P.; Helfman, D. M. : The molecular basis for tropomyosin isoform diversity. *BioEssays* 13: 429-437, 1991.
2. Gariboldi, M.; Manenti, G.; Dragani, T. A.; Pierotti, M. A. : Chromosome mapping of nine tropomyosin-related sequences in mice. *Mammalian Genome* 6: 273-277, 1995.

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