

ARG59738
anti-Tropomyosin antibody [TM228]Package: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Mouse Monoclonal antibody [TM228] recognizes Tropomyosin |
| Tested Reactivity | Hu, Ms, Rat |
| Predict Reactivity | Bov, Chk, Rb |
| Tested Application | WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | TM228 |
| Isotype | IgG2a |
| Target Name | Tropomyosin |
| Species | Chicken |
| Immunogen | Chicken gizzard tropomyosin. |
| Conjugation | Un-conjugated |
| Alternate Names | HEL-S-108; Tropomyosin-4; Tropomyosin alpha-4 chain; TM30p1 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|---------------|
| | WB | 0.5 - 1 µg/ml |

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

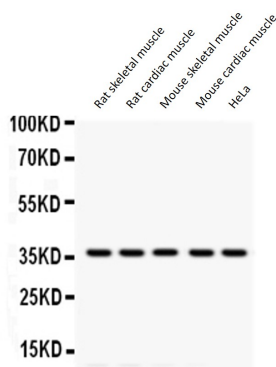
Properties

| | |
|---------------------|--|
| Form | Liquid |
| Purification | Unpurified. |
| Buffer | Ascites fluid, 1.2% Sodium acetate, 0.01% Sodium azide and 2% BSA. |
| Preservative | 0.01% Sodium azide |
| Stabilizer | 2% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| | |
|-----------------------|---|
| Gene Symbol | TPM4 |
| Gene Full Name | tropomyosin 4 |
| Background | This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2009] |
| Function | Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments. Binds calcium. [UniProt] |
| Calculated Mw | 29 kDa |
| Cellular Localization | Cytoplasm, cytoskeleton. Note=Associates with F-actin stress fibers. [UniProt] |

Images



ARG59738 anti-Tropomyosin antibody [TM228] WB image

Western blot: Rat skeletal muscle, Rat cardiac muscle, Mouse skeletal muscle, Mouse cardiac muscle and HeLa whole cell lysates stained with ARG59738 anti-Tropomyosin antibody [TM228] at 0.5 $\mu\text{g/ml}$ dilution.