

Monoclonal Antibody to Troponin T (cardiac) - Purified

Catalog No.:	AM00512PU-N
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Troponin T is a thin filament regulatory protein of striated muscle that binds to troponin C and I and to tropomyosin and is required for calcium-dependent ATPase activity of myofibrillar proteins. It is important in proper muscle function and myofibril formation. In the human heart, four cTnT isoforms are expressed in a developmentally regulated manner. This expression in the human heart is affected by heart failure.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	CT-3
Immunogen:	Purified rat cardiac troponin T isoform (TnT4R)
Format:	State: Liquid ascites fluid Purification: Protein G chromatography Buffer System: 10 mM PBS, pH 7.4, with 0.2 % BSA and 0.09 % sodium azide
Applications:	Electron Microscopy. Immunofluorescence. Immunohistology (Formalin/paraffin): 1-2 µg/ml for 30 min at RT, staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Positive Control: Cardiac muscle. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects Troponin T. Species: Human, Rat, Chicken. Other species not tested.
Add. Information:	Cellular Localization: Mostly over the I bands in myofibrils
Storage:	Store the antibody at 2 - 8 °C up to one month or in aliquots at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Jin and Lin, Ann. N.Y. Acad. Sci. volume 588, pp393-396 (1990) 2. Warren and Lin J. Muscle Res Cell Motil. 14, 619-632 (1993)

Pictures:

Formalin-fixed, paraffin-embedded human heart stained with AM00512PU-N using peroxidase-conjugate and AEC chromogen. Note cytoplasmic staining of cardiac muscles cells.

