



Rabbit Anti-cTnT monoclonal antibody, clone TD75-14 (CABT-L702)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Cardiac Troponin T
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TD75-14
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC
Molecular Weight	36 kDa
Cellular Localization	Cytoplasm, filament.
Positive Control	Mouse heart tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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BACKGROUND

Introduction

Actin is a highly conserved protein that is expressed in all eukaryotic cells. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. Myosin is a hexamer of two heavy chains (MHC) and four light chains (MLC) that interacts with Actin to generate the force for diverse cellular movements, including cytokinesis, phagocytosis and muscle contraction. Troponin facilitates the interaction between Actin and Myosin by binding to calcium. Troponin is made up of at least two subunits, which are divergent in cardiac muscle, fast skeletal muscle and slow skeletal muscle. Structures of skeletal muscle troponin are composed of Troponin C (the sensor), Troponin I (the regulator) and Troponin T (the link to the muscle thin filament). Troponin C is dumbbell-shaped and has a hydrophobic pocket that increases the contractile force of muscle fibers. Troponin C has two isoforms: fast and slow. Fast Troponin C has two calcium binding sites, while slow/cardiac Troponin C has a single calcium binding site.

Keywords

Cardiac muscle troponin T;Cardiomyopathy dilated 1D (autosomal dominant);Cardiomyopathy hypertrophic
2;CMD1D;CMH2;CMPD2;cTnT;LVNC6;MGC3889;OTTHUMP00000033864;OTTHUMP00000033865;OTT
2;TNNT2;TNNT2_HUMAN;TnTc;Troponin T cardiac muscle;Troponin T type 2 (cardiac);Troponin T
type 2 cardiac;Troponin T, cardiac muscle;Troponin T2 cardiac antibody
