



Datasheet for ABIN1537681  
**anti-TNNT3 antibody (C-Term)**



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1 Image

Overview

Quantity:	400 µL
Target:	TNNT3
Binding Specificity:	AA 217-245, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNNT3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This TNNT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 217-245 amino acids from the C-terminal region of human TNNT3.
Clone:	RB36783
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	TNNT3
Alternative Name:	TNNT3 ( <a href="#">TNNT3 Products</a> )

## Target Details

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**Background:** The binding of Ca(2+) to the trimeric troponin complex initiates the process of muscle contraction. Increased Ca(2+) concentrations produce a conformational change in the troponin complex that is transmitted to tropomyosin dimers situated along actin filaments. The altered conformation permits increased interaction between a myosin head and an actin filament which, ultimately, produces a muscle contraction. The troponin complex has protein subunits C, I, and T. Subunit C binds Ca(2+) and subunit I binds to actin and inhibits actin-myosin interaction. Subunit T binds the troponin complex to the tropomyosin complex and is also required for Ca(2+)-mediated activation of actomyosin ATPase activity. There are 3 different troponin T genes that encode tissue-specific isoforms of subunit T for fast skeletal-, slow skeletal-, and cardiac-muscle. This gene encodes fast skeletal troponin T protein, also known as troponin T type 3. Alternative splicing results in multiple transcript variants encoding additional distinct troponin T type 3 isoforms. A developmentally regulated switch between fetal/neonatal and adult troponin T type 3 isoforms occurs. Additional splice variants have been described but their biological validity has not been established. Mutations in this gene may cause distal arthrogryposis multiplex congenita type 2B (DA2B).

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**Molecular Weight:** 31825

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**Gene ID:** 7140

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**NCBI Accession:** [NP\\_001036245](#), [NP\\_001036246](#), [NP\\_001036247](#), [NP\\_006748](#)

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**UniProt:** [P45378](#)

## Application Details

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**Application Notes:** WB: 1:1000

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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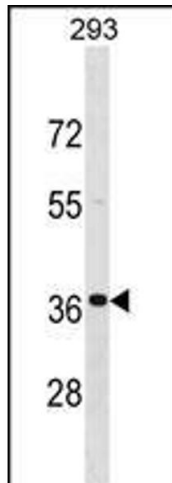
**Storage:** 4 °C, -20 °C

## Handling

Storage Comment: TNNT3 Antibody (C-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, keep at -20 °C.

Expiry Date: 6 months

## Images



### Western Blotting

**Image 1.** TNNT3 Antibody (C-term) (ABIN1537681 and ABIN2848671) western blot analysis in 293 cell line lysates (35 µg/lane). This demonstrates the TNNT3 antibody detected the TNNT3 protein (arrow).