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Datasheet for ABIN7267145  
**anti-TNNT3 antibody (AA 147-256)**

1 Image

Overview

Quantity:	100 µL
Target:	TNNT3
Binding Specificity:	AA 147-256
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNNT3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	TNNT3 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 147-256 of human TNNT3 (NP_001036246.1).
Sequence:	SMGANYSSYL AKADQKRGKK QTAREMKKKI LAERRKPLNI DHLGEDKLRD KAKELWETLH QLEIDKFEFG EKLKRQKYDI TTLRSRIDQA QKHSKKAGTP AKGKVGGRWK
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

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Target:	TNNT3
Alternative Name:	TNNT3 ( <a href="#">TNNT3 Products</a> )
Background:	<p>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).,TNNT3,TNTF,troponin T3,Signal Transduction,Cell Biology &amp; Developmental Biology,Cytoskeleton,Microfilaments,TNNT3</p>
Molecular Weight:	29kDa/30kDa/31kDa
Gene ID:	7140
UniProt:	<a href="#">P45378</a>

## Application Details

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Application Notes:	WB,1:200 - 1:2000
Restrictions:	For Research Use only

## Handling

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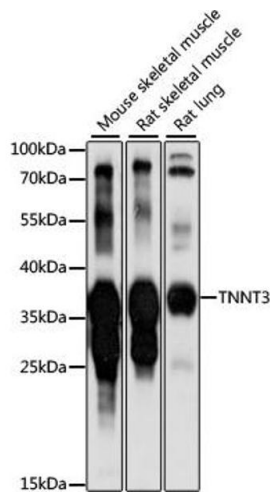
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using TNNT3 antibody (ABIN7267145) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.