

# TNNC1 Rabbit mAb

Catalog No.: A3816 **Recombinant**

## Basic Information

**Observed MW**

18kDa

**Calculated MW**

18kDa

**Category**

Primary antibody

**Applications**

ELISA, WB

**Cross-Reactivity**

Mouse, Rat

**CloneNo number**

ARC0840

## Background

Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z.

## Recommended Dilutions

WB 1:500 - 1:1000

## Immunogen Information

**Gene ID**

7134

**Swiss Prot**

P63316

**Immunogen**

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human TNNC1 (P63316).

**Synonyms**

TNC; TN-C; TNNC; CMD1Z; CMH13; TNNC1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

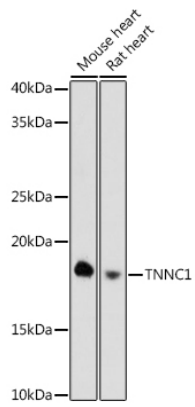
**Storage**

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

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data

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Western blot analysis of various lysates using TNNC1 Rabbit mAb (A3816) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.