

TNNT3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17019b

Specification

TNNT3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P45378
Other Accession	P09739 , Q9QZ47 , NP_001036246.1 , NP_001036245.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	31825
Antigen Region	217-245

TNNT3 Antibody (C-term) - Additional Information

Gene ID 7140

Other Names

Troponin T, fast skeletal muscle, TnTf,
Beta-TnTF, Fast skeletal muscle troponin T,
fTnT, TNNT3

Target/Specificity

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.

Dilution

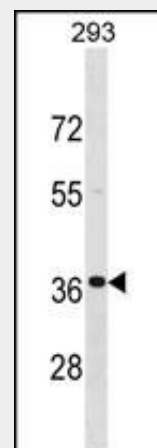
WB~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



TNNT3 Antibody (C-term) (Cat. #AP17019b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the TNNT3 antibody detected the TNNT3 protein (arrow).

TNNT3 Antibody (C-term) - 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

Precautions

TNNT3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TNNT3 Antibody (C-term) - Protein Information**Name** TNNT3**Function**

Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

Tissue Location

In fetal and adult fast skeletal muscles, with a higher level expression in fetal than in adult muscle

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 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Turnbull, C., et al. Nat. Genet. 42(6):504-507(2010)
Vihola, A., et al. Acta Neuropathol. 119(4):465-479(2010)
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)

TNNT3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)