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TNNT2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16580c

Product Information

Application	WB, E
Primary Accession	P45379
Other Accession	P09741, P50752, NP_001001431.1, NP_001001430.1
Reactivity	Human, Mouse
Predicted	Rabbit, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33602
Calculated MW	35924
Antigen Region	182-211

Additional Information

Gene ID	7139
Other Names	Troponin T, cardiac muscle, TnTc, Cardiac muscle troponin T, cTnT, TNNT2
Target/Specificity	This TNNT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 182-211 amino acids from the Central region of human TNNT2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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.
Precautions	TNNT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TNNT2
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	Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 are expressed in fetal heart. Isoform 7 is also expressed in failing adult heart

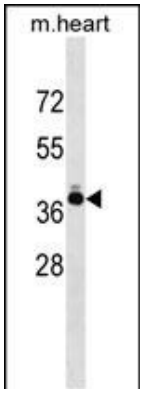
Background

The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined.

References

Millat, G., et al. Clin. Chim. Acta 411 (23-24), 1983-1991 (2010) :
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Millat, G., et al. Eur J Med Genet 53(5):261-267(2010)
Watt, K.D., et al. Liver Transpl. 16(8):990-998(2010)
Koide, K., et al. Heart Vessels 25(3):217-222(2010)

Images



TNNT2 Antibody (Center) (Cat. #AP16580c) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the TNNT2 antibody detected the TNNT2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.