

**TNNT2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16580c****Specification**

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**TNNT2 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P45379</a>
Other Accession	<a href="#">P09741</a> , <a href="#">P50752</a> , <a href="#">NP_001001431.1</a> , <a href="#">NP_001001430.1</a>
Reactivity	Human, Mouse
Predicted	Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	182-211

**TNNT2 Antibody (Center) - 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

**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.

**TNNT2 Antibody (Center) - 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**

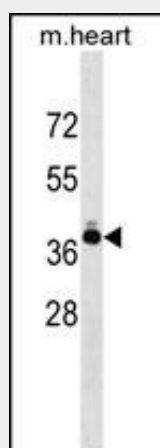
Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 are expressed in fetal heart. Isoform 7 is also expressed in failing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

#### **TNNT2 Antibody (Center) - 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](#)

#### **TNNT2 Antibody (Center) - 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).

#### **TNNT2 Antibody (Center) - 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.

#### **TNNT2 Antibody (Center) - 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)