

**TNNI3 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17180C**

**Specification**

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**TNNI3 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P19429</a>
Other Accession	<a href="#">NP_000354.4</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	86-114

**TNNI3 Antibody (Center) - Additional Information**

**Gene ID** 7137

**Other Names**

Troponin I, cardiac muscle, Cardiac troponin I, TNNI3, TNNC1

**Target/Specificity**

This TNNI3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 86-114 amino acids from the Central region of human TNNI3.

**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**

TNNI3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**TNNI3 Antibody (Center) - Protein Information**

**Name** TNNI3

**Synonyms** TNNC1

**Function** Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex

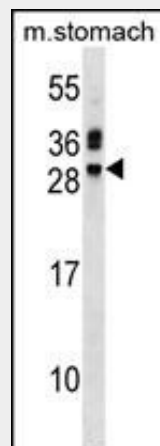
which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

### TNNI3 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](#)

### TNNI3 Antibody (Center) - Images



TNNI3 Antibody (Center) (Cat. #AP17180c) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the TNNI3 antibody detected the TNNI3 protein (arrow).

### TNNI3 Antibody (Center) - Background

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

### TNNI3 Antibody (Center) - References

- Millat, G., et al. Clin. Chim. Acta 411 (23-24), 1983-1991 (2010) :  
Murakami, C., et al. Leg Med (Tokyo) 12(6):280-283(2010)  
Millat, G., et al. Eur J Med Genet 53(5):261-267(2010)  
Di Chiara, A., et al. J Cardiovasc Med (Hagerstown) 11(8):587-592(2010)  
Napan, S., et al. Coron. Artery Dis. 21(5):261-265(2010)