

**TNNI2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16030a****Specification**

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**TNNI2 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P48788</a>
Other Accession	<a href="#">P27768</a> , <a href="#">P02643</a> , <a href="#">P13412</a> , <a href="#">NP_003273.1</a> , <a href="#">NP_001139301.1</a>
Reactivity	Human
Predicted	Mouse, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21339
Antigen Region	1-30

**TNNI2 Antibody (N-term) - Additional Information****Gene ID** 7136**Other Names**

Troponin I, fast skeletal muscle, Troponin I, fast-twitch isoform, TNNI2

**Target/Specificity**

This TNNI2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TNNI2.

**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**

TNNI2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TNNI2 Antibody (N-term) - Protein Information****Name** TNNI2

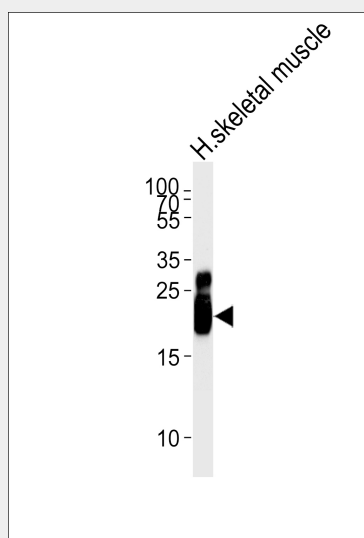
**Function** Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

### **TNNI2 Antibody (N-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](#)

### **TNNI2 Antibody (N-term) - Images**



Western blot analysis of lysate from human skeletal muscle tissue lysate, using TNNI2 Antibody (N-term)(Cat. #AP16030a). AP16030a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

### **TNNI2 Antibody (N-term) - Background**

This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause

myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

#### **TNNI2 Antibody (N-term) - References**

Bailey, S.D., et al. Diabetes Care (2010) In press :  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)  
Perez-Illzarbe, M., et al. Eur. J. Heart Fail. 10(11):1065-1072(2008)  
Moran, C.M., et al. Cell Motil. Cytoskeleton 65(8):652-661(2008)  
Li, Y., et al. Biochem. Biophys. Res. Commun. 369(4):1034-1040(2008)