

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

TNNI2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P48788
Other Accession	P27768 , P02643 , P13412 , NP_003273.1 , NP_001139301.1
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

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

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

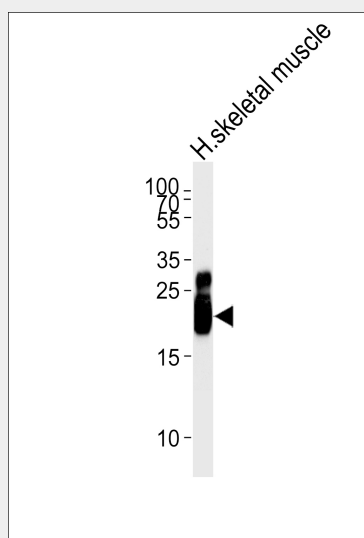
Function Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

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-Illarbe, 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)