

**TNNC1 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13841a****Specification**

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**TNNC1 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [P63316](#)

**TNNC1 Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 7134

**Other Names**

Troponin C, slow skeletal and cardiac muscles, TN-C, TNNC1, TNNC

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13841a was selected from the N-term region of TNNC1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TNNC1 Antibody (N-term) Blocking peptide - Protein Information**

**Name** TNNC1

**Synonyms** TNNC

**Function**

Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments.

**TNNC1 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**TNNC1 Antibody (N-term) Blocking peptide - Images****TNNC1 Antibody (N-term) Blocking peptide - Background**

Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z. [provided by RefSeq].

**TNNC1 Antibody (N-term) Blocking peptide - References**

Parvatiyar, M.S., et al. J. Biol. Chem. 285(36):27785-27797(2010) Swindle, N., et al. Biochemistry 49(23):4813-4820(2010) Dweck, D., et al. J. Biol. Chem. 285(23):17371-17379(2010) Bates, K.J., et al. Clin. Chem. 56(6):952-958(2010) Hershberger, R.E., et al. Circ Cardiovasc Genet 3(2):155-161(2010)