

TNNC1/TNNC2 polyclonal antibody

Catalog # PAB19920 Size 150 ug

Specification

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| Product Description | Rabbit polyclonal antibody raised against native TNNC1/TNNC2. |
| Immunogen | Native purified TNNC1/TNNC2 from human skeletal muscle. |
| Host | Rabbit |
| Reactivity | Human |
| Form | Liquid |
| Purification | Affinity purification |
| Recommend Usage | The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS, pH 7.5 (0.02% sodium azide, 50% glycerol (v/v)) |
| Storage Instruction | Store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Enzyme Immunoassay

Gene Info — TNNC2

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| Entrez GeneID | 7125 |
| Gene Name | TNNC2 |
| Gene Alias | - |

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| Gene Description | troponin C type 2 (fast) |
| Omim ID | 191039 |
| Gene Ontology | Hyperlink |
| Gene Summary | Troponin (Tn), a key protein complex in the regulation of striated muscle contraction, is composed of 3 subunits. The Tn-I subunit inhibits actomyosin ATPase, the Tn-T subunit binds tropomyosin and Tn-C, while the Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments. The protein encoded by this gene is the Tn-C subunit. [provided by RefSeq] |
| Other Designations | OTTHUMP00000039531 fast skeletal muscle troponin C troponin C2, fast |

Gene Info — TNNC1

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| Entrez GeneID | 7134 |
| Gene Name | TNNC1 |
| Gene Alias | CMD1Z, TNC, TNNC |
| Gene Description | troponin C type 1 (slow) |
| Omim ID | 191040 |
| Gene Ontology | Hyperlink |
| Gene Summary | 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] |
| Other Designations | cardiac troponin C slow twitch skeletal/cardiac muscle troponin C troponin C, slow troponin C1, slow |

Pathway

- [Calcium signaling pathway](#)
- [Calcium signaling pathway](#)
- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)