

TNNC1 monoclonal antibody, clone 4C2cc

Catalog # MAB21531 Size 200 ug

Specification

Product Description	Mouse monoclonal antibody raised against human TNNC1.
Immunogen	Epitope amino acids 23-29 of human cardiac troponin I.
Host	Mouse
Reactivity	Human
Specificity	None of the antibody has cross-reaction with skeletal muscle troponin I.
Form	Liquid
Purification	Protein A purification
Isotype	IgG2a
Recommend Usage	ELISA Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay

Gene Info — TNNC1

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

Disease

- [Cardiomyopathy](#)
- [Genetic Predisposition to Disease](#)