

Troponin I-C Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA1235
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of Troponin I-C expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	Troponin I cardiac muscle
Synonyms	TNNI3; TNNC1; Troponin I; cardiac muscle; Cardiac troponin I

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

Recommended Dilution

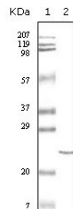
ELISA: 1:10000

IHC: 1:200 - 1:1000

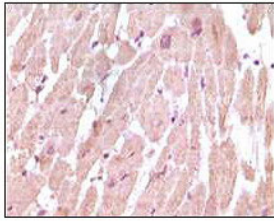
WB: 1:500 - 1:2000

Not yet tested in other applications.

Images



Western Blot analysis using Troponin I-C Monoclonal antibody against truncated Troponin I-C recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human normal cardiac muscle tissue, showing cytoplasmic localization with DAB staining using Troponin I-C Monoclonal antibody.

Storage

-20°C for one year

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