

Troponin I-C Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP09225
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from mouse TNNI3. AA range:5-54
Mol wt	24008
Species reactivity	Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	Troponin I-C Antibody
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

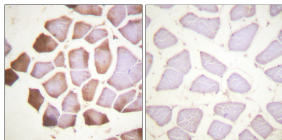
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

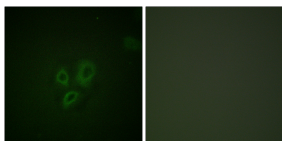
ELISA: 1: 5000

Not yet tested in other applications.

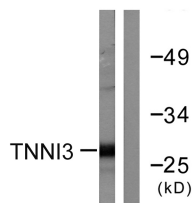
Images



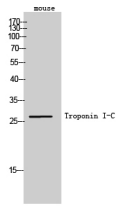
Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using TNNI3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of HepG2 cells, using TNNI3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from mouse heart cells, using TNNI3 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of mouse cells using Troponin I-C Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Storage

-20°C for one year

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