

Troponin I-C Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP09223
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human TNNI3. AA range:111-160
Mol wt	24008
Species reactivity	Human, 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. NNI3 (troponin I3, cardiac type) encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in TNNI3 cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

Recommended Dilution

WB: 1: 500 - 1: 2000

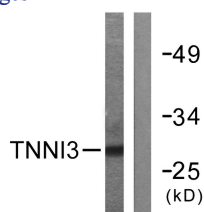
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

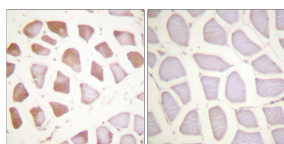
ELISA: 1: 40000

Not yet tested in other applications.

Images



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



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

Storage

-20°C for one year

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