

Product datasheet

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ARG41117 anti-Cardiac Troponin I antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Cardiac Troponin I

Tested Reactivity Ms, Rat

Tested Application ICC/IF, IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Cardiac Troponin I

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-210 of Human Cardiac Troponin I (NP_000354.4).

Conjugation Un-conjugated

Alternate Names RCM1; cTnl; Cardiac troponin I; TNNC1; CMD1FF; CMD2A; Troponin I, cardiac muscle; CMH7

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IP	Assay-dependent
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat heart	
Observed Size	30 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20° C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol TNNI3

Gene Full Name troponin I type 3 (cardiac)

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. Tnl is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The Tnl subfamily contains three genes: Tnl-skeletal-fast-twitch, Tnl-skeletal-slow-twitch, and Tnl-cardiac. This gene encodes the Tnl-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).

[provided by RefSeq, Jul 2008]

Function Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers

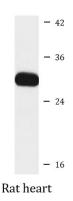
calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]

Calculated Mw 24 kDa

PTM Phosphorylated at Ser-42 and Ser-44 by PRKCE; phosphorylation increases myocardium contractile

dysfunction (By similarity). Phosphorylated at Ser-23 and Ser-24 by PRKD1; phosphorylation reduces myofilament calcium sensitivity. Phosphorylated preferentially at Thr-31. Phosphorylation by STK4/MST1 alters its binding affinity to TNNC1 (cardiac Tn-C) and TNNT2 (cardiac Tn-T). [UniProt]

Images



ARG41117 anti-Cardiac Troponin I antibody WB image

Western blot: 25 μg of Rat heart lysate stained with ARG41117 anti-Cardiac Troponin I antibody at 1:1000 dilution.