

ARG65648 anti-Cardiac Troponin T antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Cardiac Troponin T
Tested Reactivity	Hu, Ms, Rat, Pig
Predict Reactivity	Cat, Cow, Dog
Tested Application	WB
Specificity	This antibody is expected to recognize all reported isoforms (NP_000355.2; NP_001001430.1; NP_001001431.1; NP_001001432.1).
Host	Goat
Clonality	Polyclonal
Target Name	Cardiac Troponin T
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human Cardiac Troponin T (C-RNRINDNQKVSKT)
Conjugation	Un-conjugated
Alternate Names	RCM3; CMPD2; LVNC6; TnTC; TnTc; CMH2; cTnT; Cardiac muscle troponin T; CMD1D; Troponin T, cardiac muscle

Application Instructions

Application table	Application	Dilution
	WB	0.03 - 0.1 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

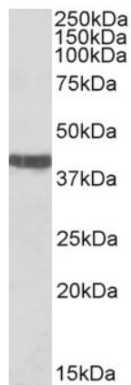
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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.

Note

For laboratory research only, not for drug, diagnostic or other use.

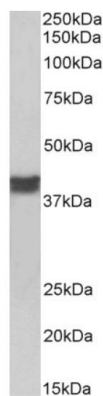
Bioinformation

Gene Symbol	TNNT2
Gene Full Name	troponin T type 2 (cardiac)
Background	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq, Jul 2008]
Function	Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Signaling Transduction antibody
Calculated Mw	35.6 kDa (NP_000355.2)
PTM	Phosphorylation at Thr-213 by PRKCA induces significant reduction in myofilament calcium sensitivity and actomyosin ATPase activity.

Images

ARG65648 anti-Cardiac Troponin T antibody WB image

Western blot: 35 µg of Rat Heart lysate stained with ARG65648 anti-Cardiac Troponin T antibody at 0.03 µg/ml dilution (1 hour incubation).



ARG65648 anti-Cardiac Troponin T antibody WB image

Western blot: 35 µg of Pig Heart lysate stained with ARG65648 anti-Cardiac Troponin T antibody at 0.01 µg/ml dilution (1 hour incubation).