

ARG10451 anti-Cardiac Troponin T antibody [1F11]

Package: 200 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1F11] recognizes Cardiac Troponin T
Tested Reactivity	Hu, Ms, Rat, Bov, Cat, Dog, Fsh, Goat, Pig, Rb
Tested Application	ELISA, FACS, ICC/IF, IHC-P, WB
Specificity	No cross-reaction with skeletal TnT.
Host	Mouse
Clonality	Monoclonal
Clone	1F11
Isotype	IgG2b
Target Name	Cardiac Troponin T
Species	Human
Immunogen	free human cTnT
Epitope	within a.a. 145-164
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
	ELISA	Assay-dependent
	FACS	1:100 - 1:500
	ICC/IF	1:100 - 1:300
	IHC-P	1:100 - 1:300
	WB	1:500

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Protein A affinity purified.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide

Concentration	1 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

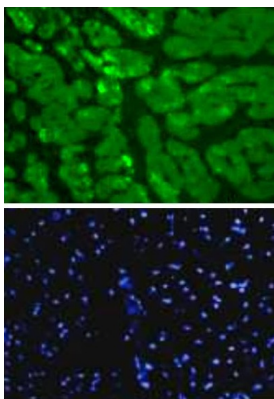
Gene Symbol	TNNT2
Gene Full Name	troponin T type 2 (cardiac)
Background	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium 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	36 kDa
PTM	Phosphorylation at Thr-213 by PRKCA induces significant reduction in myofilament calcium sensitivity and actomyosin ATPase activity.

Images



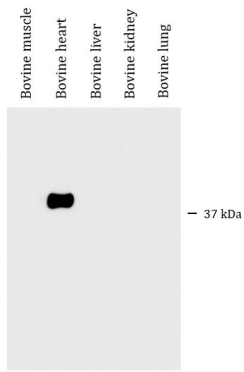
ARG10451 anti-Cardiac Troponin T antibody [1F11] WB image

Western blot: 20 µg of Rat heart lysate stained with ARG10451 anti-Cardiac Troponin T antibody [1F11] at 1:416 dilution.



ARG10451 anti-Cardiac Troponin T antibody [1F11] IHC-P image

Immunohistochemistry: Paraffin-embedded ischemic pig heart tissue stained with ARG10451 anti-Cardiac Troponin T antibody [1F11].



ARG10451 anti-Cardiac Troponin T antibody [1F11] WB image

Western blot: Bovine muscle, heart, liver, kidney and lung lysates stained with ARG10451 anti-Cardiac Troponin T antibody [1F11].

Bovine heart serves as a positive control; Other tissue samples serve as negative controls.