

Magic™ Anti-troponin I monoclonal antibody, clone 736 (DMAB-L21003)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with free human cardiac troponin I, native human cardiac troponin complex, or human cardiac troponin I peptides.
Antigen Description	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). [provided by RefSeq, Jul 2008]
Specificity	No cross-reaction with skeletal TnT
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	736
Purification	Chromatography on protein A Sepharose
Conjugate	Unconjugated
Applications	Human cardiac troponin I sandwich immunoassays.
Procedure	Matched Antibody Pairs
Buffer	PBS, pH 7.4, 0.1 % sodium azide (NaN?)

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Preservative	0.1% Sodium Azide
Storage	4°C

GENE INFORMATION

Gene Name	TNNI3 troponin I type 3(cardiac) [Homo sapiens]
Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); CMH7; RCM1; cTnI; CMD2A; TNNC1; MGC116817; troponin I, cardiac; Troponin I, cardiac muscle; Cardiac troponin I; familial hypertrophic cardiomyopathy 7
Entrez Gene ID	7137
Protein Refseq	NP_000354
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Hypertrophic cardiomyopathy (HCM); Muscle contraction; Cardiac muscle contraction
Function	actin binding; calcium-dependent protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding; calcium channel inhibitor activity

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