



Magic™ Anti-Troponin T monoclonal antibody, clone 2D22 (DMAB-L21007)

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 cTnT
Antigen Description	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]
Specificity	No cross-reaction with skeletal TnT
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	2D22
Purification	Chromatography on protein A Sepharose
Conjugate	Unconjugated
Applications	TnT immunoassay and TnT immunoaffinity purification. It is possible to use following pairs of antibodies for sandwich immunoassay (capture-detection): DMAB-L21007 - DMAB-L21008
Buffer	PBS, pH 7.4, 0.1 % sodium azide (NaN ₃)
Preservative	0.1% Sodium Azide

GENE INFORMATION

Gene Name	TNNT2troponin T type 2 (cardiac) [Homo sapiens]
Official Symbol	TNNT2
Synonyms	TNNT2; troponin T type 2 (cardiac); CMH2; RCM3; TnTC; cTnT; CMPD2; LVNC6; MGC3889; troponin T, cardiac muscle; OTTHUMP00000033864; OTTHUMP00000033865; OTTHUMP00000033866; OTTHUMP00000033867; OTTHUMP00000033870; OTTHUMP00000218095; troponin T2, cardiac; cardiac muscle troponin T; cardiomyopathy, hypertrophic 2; cardiomyopathy, dilated 1D (autosomal dominant)
Entrez Gene ID	7139
Protein Refseq	NP_000355
UniProt ID	P45379
Chromosome Location	1q32
Pathway	Cardiac muscle contraction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy (HCM); Muscle contraction; Striated Muscle Contractio
Function	contributes_to ATPase activity; actin binding; tropomyosin binding; troponin C binding; troponin I binding