



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

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| 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 |
| Procedure | Matched Antibody Pairs |
| Buffer | PBS, pH 7.4, 0.1 % sodium azide (NaN ₃) |
| Preservative | 0.1% Sodium Azide |
| Storage | 4°C |

GENE INFORMATION

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| 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 |