

Product datasheet for **CF804462**

Cardiac Troponin T (TNNT2) Mouse Monoclonal Antibody [Clone ID: OTI7B1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7B1
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human TNNT2 (NP_000355) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35.4 kDa
Gene Name:	troponin T2, cardiac type
Database Link:	NP_000355 Entrez Gene 21956 Mouse Entrez Gene 24837 Rat Entrez Gene 7139 Human P45379



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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]

Synonyms:

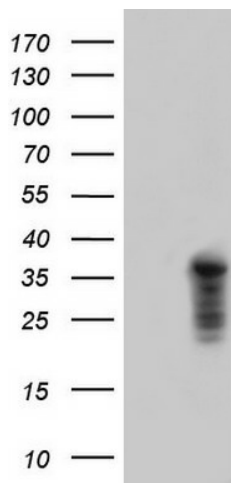
CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC

Protein Families:

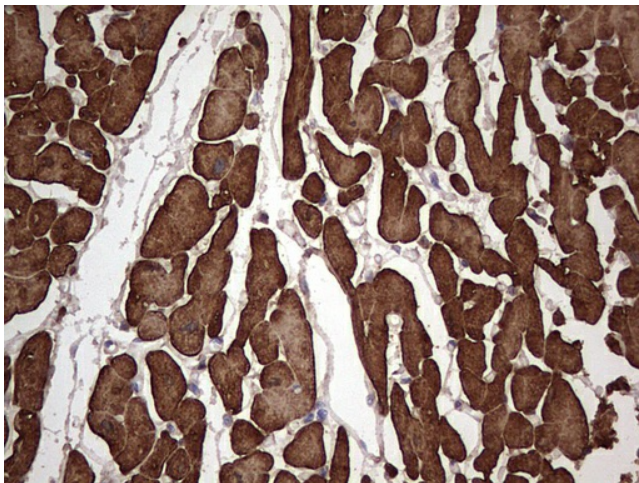
Druggable Genome

Protein Pathways:

Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TNNT2 ([RC214180], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNNT2. Positive lysates [LY400130] (100ug) and [LC400130] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Human adult heart tissue using anti-TNNT2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA804462])