

## Product datasheet for **UM800097CF**

### Cardiac Troponin T (TNNT2) Mouse Monoclonal Antibody [Clone ID: UMAB205]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB205
Applications:	10k-ChIP, IHC, WB
Recommended Dilution:	IHC 1:100~200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
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:	<a href="#">NP_000355</a> <a href="#">Entrez Gene 21956 Mouse</a> <a href="#">Entrez Gene 24837 Rat</a> <a href="#">Entrez Gene 7139 Human</a> <a href="#">P45379</a>



[View online »](#)

**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:**

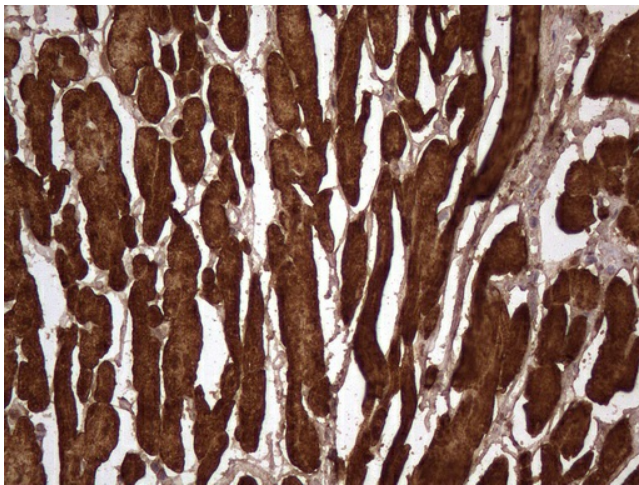
CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC

**Protein Families:**

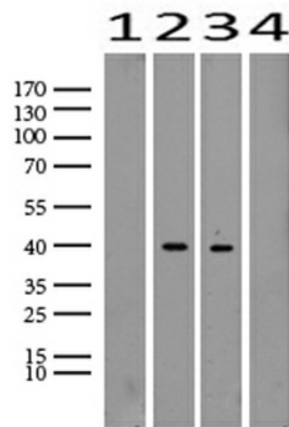
Druggable Genome

**Protein Pathways:**

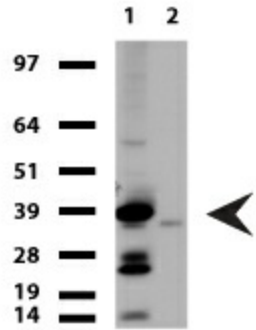
Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

**Product images:**


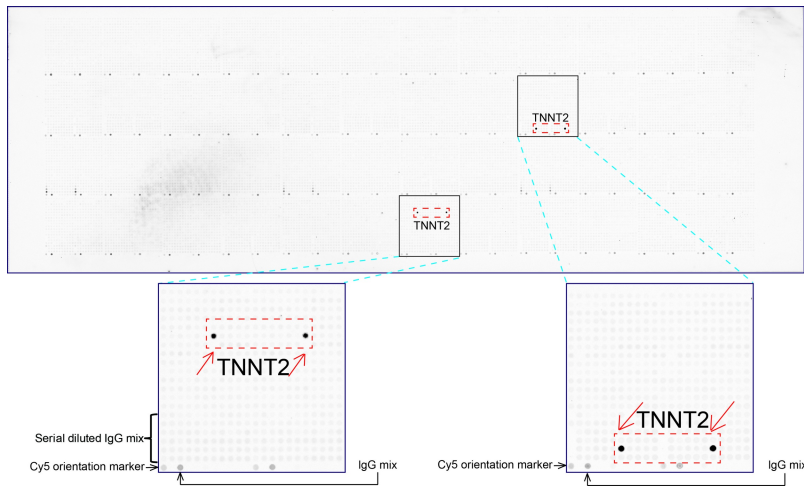
Immunohistochemical staining of paraffin-embedded Human adult heart tissue using anti-TNNT2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 110°C for 10min, [UM800097]) (1:200)



Western blot analysis of extracts (25ug) from 4 different cell lines by using anti-TNNT2 monoclonal antibody. (1:500) (1: HEK293; 2: HeLa; 3: MCF7; 4: HepG2) Dilution: 1:500



Western blot of human tissue lysates (15ug) from 2 different tissues (1: Heart, 2: Muscle). Dilution: 1:500.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-TNNT2 mouse monoclonal antibody ([UM800097]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification (1:100).