

Product datasheet for **UM870096**

Troponin C1 (TNNC1) Mouse Monoclonal Antibody [Clone ID: UMAB204]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | UMAB204 |
| Applications: | 10k-ChIP, IHC, WB |
| Recommended Dilution: | IHC 1:100~200 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human TNNC1 (NP_003271) produced in E.coli. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 0.5~1.0 mg/ml (Lot Dependent) |
| 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: | 18.2 kDa |
| Gene Name: | troponin C1, slow skeletal and cardiac type |
| Database Link: | NP_003271 Entrez Gene 21924 Mouse Entrez Gene 290561 Rat Entrez Gene 7134 Human P63316 |

Background: Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z. [provided by RefSeq, Oct 2008]

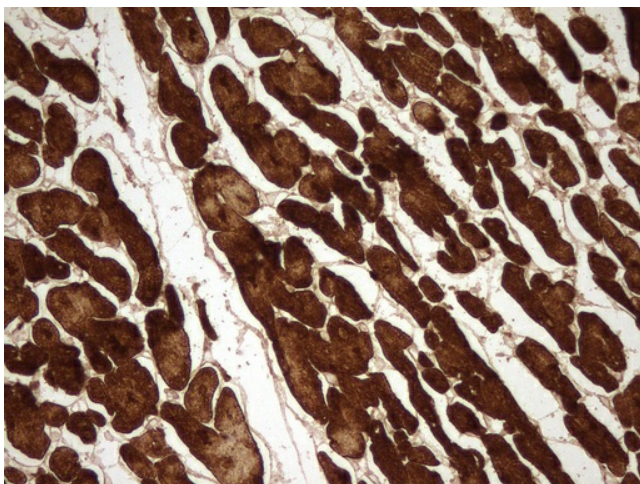


[View online »](#)

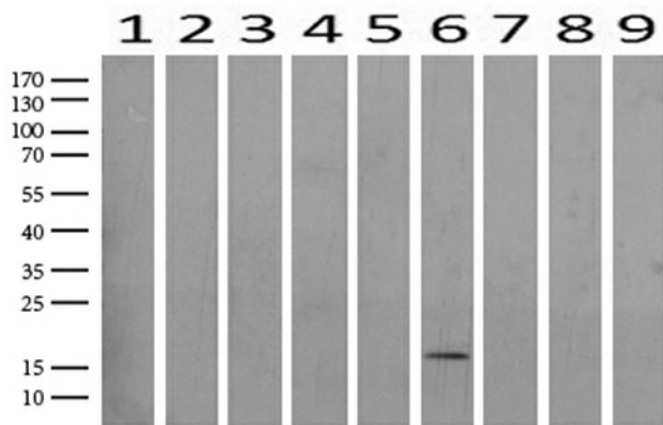
Synonyms: CMD1Z; CMH13; TN-C; TNC; TNNC

Protein Pathways: Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

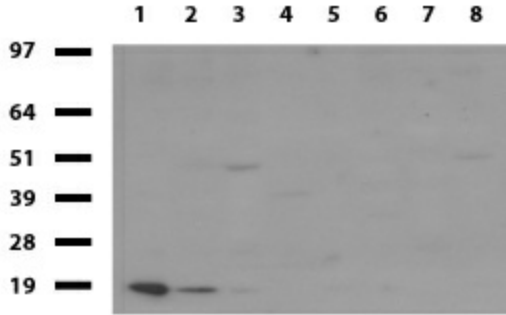
Product images:



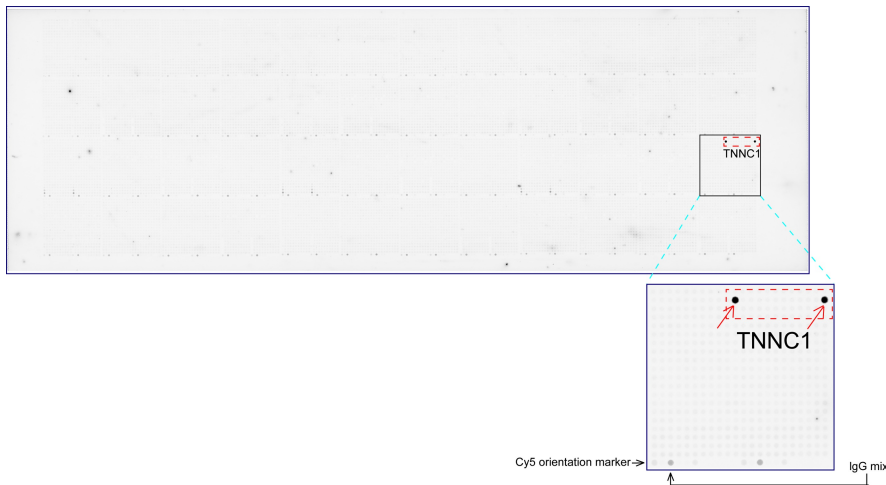
Immunohistochemical staining of paraffin-embedded Human adult heart tissue using anti-TNNC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [UM800096]) (1:200)



Western blot analysis of extracts (15ug) from 9 Human tissue by using anti-TNNC1 monoclonal antibody (1: Testis; 2: Uterus; 3: Breast; 4: Brain; 5: Liver; 6: Ovary; 7: Thyroid gland; 8: colon;;9:Spleen). (1:500) Dilution: 1:500



Western blot of cell lysates (35ug) from 8 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: MCF7, 5: COS7, 6: Jurkat, 7: MDCK, 8: PC-12). Dilution: 1:500.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-TNNC1 mouse monoclonal antibody ([UM800096]). 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).