

Product datasheet for **TA500255BM**

Cardiac Troponin I (TNNI3) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI3G2]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI3G2 |
| Applications: | IHC, WB |
| Recommended Dilution: | WB 1:2000 IHC 1:50 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Recombinant protein expressed in E.coli corresponding to amino acids 1-210 of human TNNI3 |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol. |
| Concentration: | 0.5 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | HRP |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 32.7 kDa |
| Gene Name: | troponin I3, cardiac type |
| Database Link: | NP_000354 Entrez Gene 21954 Mouse Entrez Gene 29248 Rat Entrez Gene 7137 Human P19429 |



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Background:

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM)

Synonyms:

CMD1FF; CMD2A; CMH7; cTnI; RCM1; TNNC1

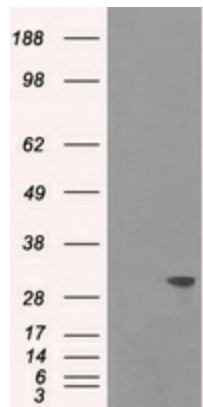
Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency

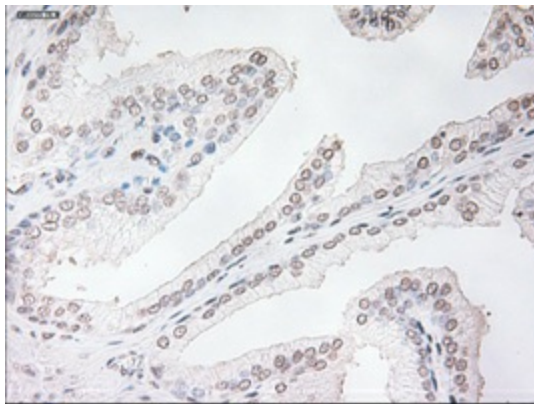
Protein Pathways:

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

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TNNI3 [RC214740], 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-TNNI3. Positive lysates [LY424766] (100ug) and [LC424766] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-TNNI3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500255], Dilution 1:50)