

Product datasheet for TA500057S

Cardiac Troponin I (TNNI3) Mouse Monoclonal Antibody [Clone ID: OTI4E5]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | OTI4E5 |
| Applications: | IF, WB |
| Recommended Dilution: | WB 1:2500~5000, IF 1:50~100 |
| Reactivity: | Human, Dog, Monkey, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human TNNI3 (NP_000354) produced in E.coli. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| 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: | 23.8 kDa |
| Gene Name: | troponin I3, cardiac type |
| Database Link: | NP_000354 Entrez Gene 21954 Mouse Entrez Gene 29248 Rat Entrez Gene 403566 Dog Entrez Gene 698470 Monkey Entrez Gene 7137 Human P19429 |


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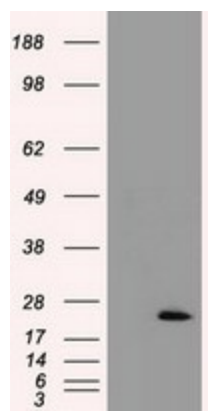
Background: Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily 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

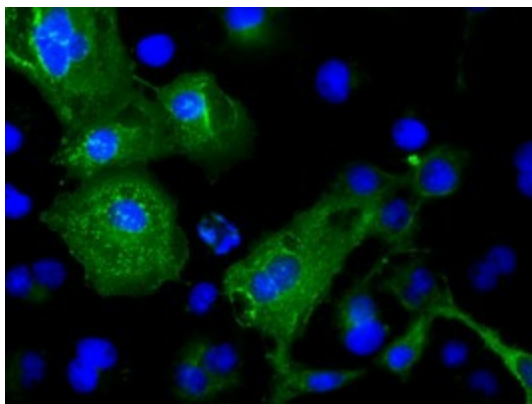
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency

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

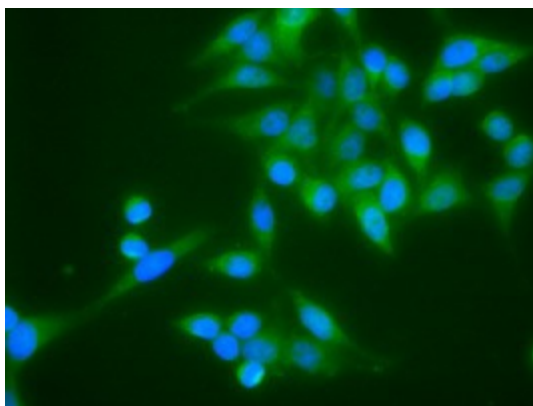
Product images:



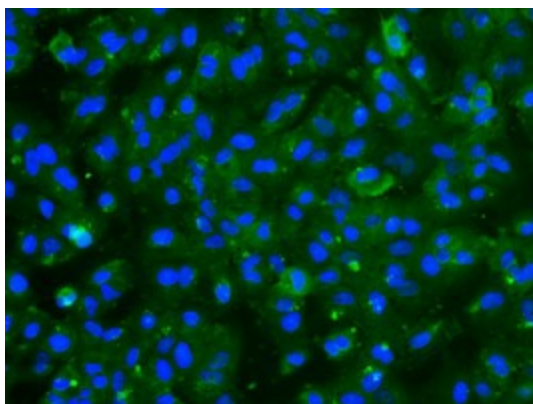
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TNNI3 [RC214740], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNNI3. Positive lysates [LY424766] (100ug) and [LC424766] (20ug) can be purchased separately from OriGene.



Anti-TNNI3 mouse monoclonal antibody ([TA500057]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TNNI3 [RC214740]).



Immunofluorescent staining of HeLa cells using anti-TNNI3 mouse monoclonal antibody (TA500057).



Immunofluorescent staining of A549 cells using anti-TNNI3 mouse monoclonal antibody (TA500057).