

Product datasheet for CF808038

OriGene Technologies, Inc.

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Cardiac Troponin I (TNNI3) Mouse Monoclonal Antibody [Clone ID: OTI4C1]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI4C1
Applications: IHC, WB

Recommended Dilution: WB 1:2000, IHC 1:150

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Recombinant protein expressed in E.coli corresponding to amino acids 1-210 of human

TNN13

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: 23.8 kDa

Gene Name: troponin I3, cardiac type

Database Link: NP 000354

Entrez Gene 21954 MouseEntrez Gene 29248 RatEntrez Gene 7137 Human

P19429





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. Tnl is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The Tnl subfamily contains three genes: Tnl-skeletal-fast-twitch, Tnl-skeletal-slow-twitch, and Tnl-cardiac. This gene encodes the Tnl-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7

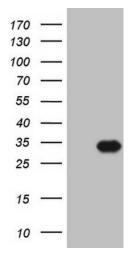
(CMH7) and familial restrictive cardiomyopathy (RCM). [provided by RefSeq, Jul

Synonyms: CMD1FF; CMD2A; CMH7; cTnl; RCM1; TNNC1

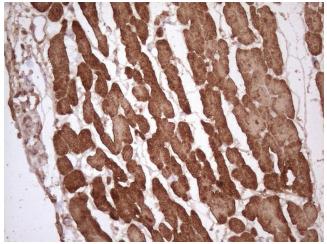
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency

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 (1:2000). Positive lysates [LY424766] (100ug) and [LC424766] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffinembedded Human adult heart tissue using anti-TNNI3 mouse monoclonal antibody. (Heatinduced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA808038]) (1:150)