Product datasheet

Anti-Cardiac Troponin I/TNNI3 Antibody (Clone#OTI4E5)

Catalog Number: *M01720-2*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-Cardiac Troponin I/TNNI3 Antibody (Clone#OTI4E5)
Gene Name	TNNI3
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse, rat, dog, monkey
Tested Application	WB, ICC/IF
Contents	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Full length human recombinant protein of human TNNI3 (NP_000354) produced in E.coli.
Concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	23.8 kDa
Dilution Ratios	Western blot (WB): 1:2500~5000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50~100

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

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).

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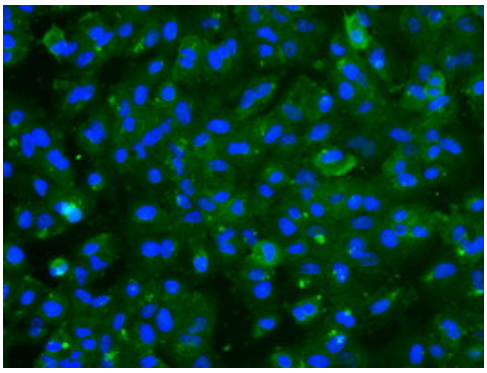
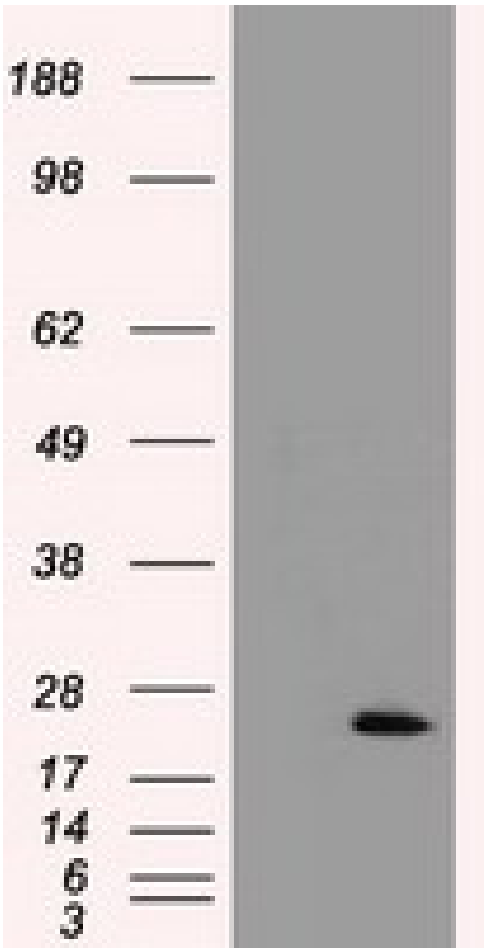
Selected Validation Data



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



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TNNI3 (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.