

Troponin I Recombinant Rabbit Monoclonal Antibody (1H11L19)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	1H11L19
Conjugate	Unconjugated
Immunogen	human Troponin I
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532494

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:100	1 Publication

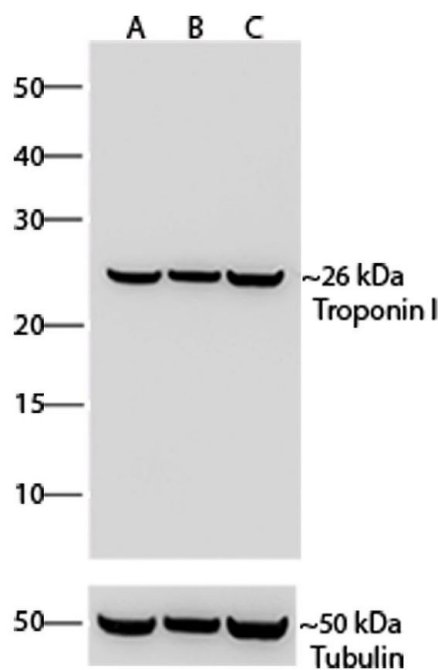
Product Specific Information

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Troponin I Recombinant Rabbit Monoclonal Antibody (1H11L19)

Troponin I Antibody (701585) in WB

Western blot analysis of Troponin I was performed by loading 20 µg of Mouse Heart, Rat Heart and Human Cardiomyocyte lysates (lane A, B, C) using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0321BOX), Xcell SureLock Electrophoresis system (Product # EI0002), Novex sharp Pre-stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. Troponin I was detected at ~26 kDa using Troponin I Recombinant Rabbit Monoclonal Antibody (Product # 701585) at a 1:1,000 dilution in 2.5% skim milk at 4° C overnight on a rocking platform. Goat anti-Rabbit IgG - HRP Secondary Antibody (Product # G-21234) at 1:5,000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

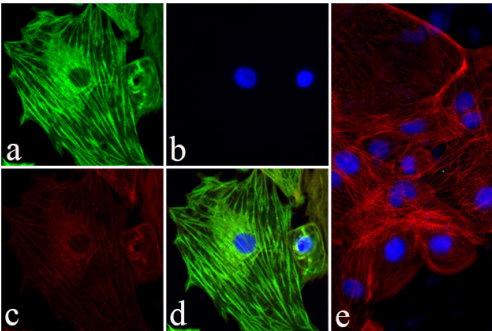
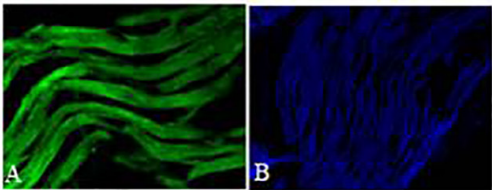


Troponin I Antibody (701585) in IHC (P)

Immunohistochemistry analysis of Troponin I Recombinant Rabbit Monoclonal Antibody (Product # 701585) was done on paraffin embedded mouse heart tissue sections. To expose target proteins, heat induced epitope retrieval was performed using Tris-EDTA (pH 9.0) buffer for 15 minutes. Following antigen retrieval, tissues were blocked in 0.2% BSA with 0.1% cold fish skin gelatin in 1X PBS for 1 hour in a humidified chamber. The tissues were then probed at a dilution of 1:100 with Troponin I Recombinant Rabbit Monoclonal Antibody (Product # 701585) or blocking buffer alone as negative control for 3 hours at room temperature in a humidified chamber. Detection was performed using Alexa Fluor® 488 Goat anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 for 30 minutes in a humidified chamber. Tissues were counterstained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). The images were captured using a Nikon microscope at 20X magnification.

Troponin I Antibody (701585) in ICC/IF

Immunofluorescent analysis of Troponin I was done on Primary Human Cardiomyocytes. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Troponin I Recombinant Rabbit Monoclonal Antibody (Product # 701585) at a dilution of 1:400 in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor® 488 Goat anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 594 Phalloidin (Product # A12381). Panel d is a merged image showing striated muscle fiber localization. Panel e is a no primary antibody control. The images were captured using a Nikon microscope at 20X magnification.



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Immunocytochemistry (1)

Cell reports

Metabolic Maturation Media Improve Physiological Function of Human iPSC-Derived Cardiomyocytes.

"701585 was used in Immunocytochemistry to provide oxidative substrates adapted to the metabolic needs of human iPSC (hiPSC)-CMs."

Authors: Feyen DAM, McKeithan WL, Bruyneel AAN, Spiering S, Hörmann L, Ulmer B, Zhang H, Briganti F, Schweizer M, Hegyi B, Liao Z, Pölönen RP, Ginsburg KS, Lam CK, Serrano R, Wahlquist C, Kreymerman A, Vu M, Amatya PL, Behrens CS, Ranjbarvaziri S, Maas RGC, Greenhaw M, Bernstein D, Wu JC, Bers DM, Eschenhagen T, Metallo CM, Mercola M

Year
2020

Species
Human

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