

Cardiac Troponin T Monoclonal Antibody (13-11)

Product Details	
Size	200 µL
Species Reactivity	Avian, Dog, Chicken, Fish, Guinea pig, Human, Mouse, Pig, Rabbit, Rat
Published Species	Dog, Pig, Rat, Hamster, Zebrafish, Mouse, Human, Xenopus
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	13-11
Conjugate	Unconjugated
Immunogen	Purified rabbit cardiac troponin T isoform (TnT4R)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_11000742

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	12 Publications
Immunohistochemistry (IHC)	-	64 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-2 µg/mL	5 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	4 Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	104 Publications
Flow Cytometry (Flow)	-	54 Publications
ELISA (ELISA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	3 Publications

Product Specific Information

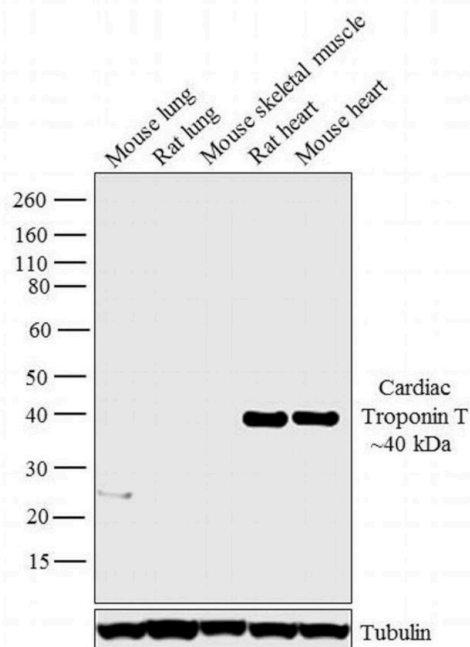
MA5-12960 targets Troponin T Cardiac Isoform in IF/ICC, IHC (P), and IM applications and shows reactivity with Avian, Canine, Chicken, Fish, Guinea Pig, Human, mouse, Porcine, Rabbit, and Rat samples.

The MA5-12960 immunogen is purified rabbit cardiac troponin T isoform (TnT4R).

Product Images For Cardiac Troponin T Monoclonal Antibody (13-11)

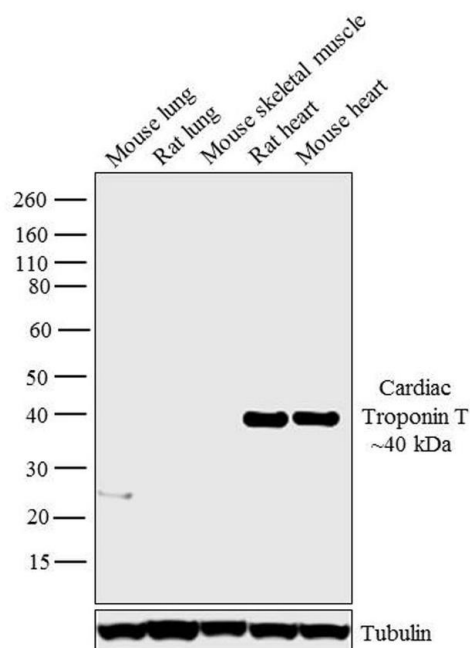
Cardiac Troponin T Antibody (MA5-12960)

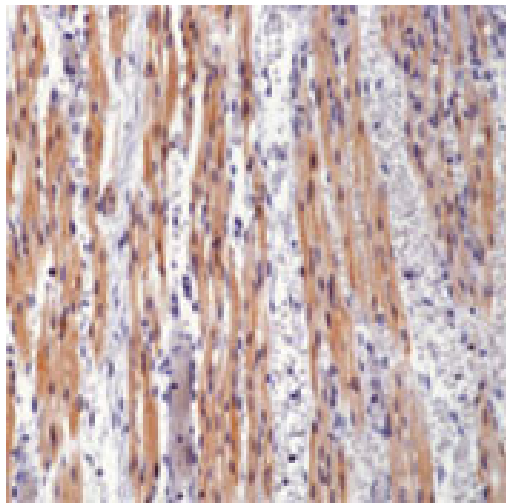
Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue models owing to their inherent genetic constitution. Expression of Cardiac Troponin T was observed specifically in heart tissue and was negative for skeletal muscle and lung tissue using Anti-Cardiac Troponin T Monoclonal Antibody (Product # MA5-12960) in western blot. {RE}



Cardiac Troponin T Antibody (MA5-12960) in WB

Western blot analysis was performed on tissue extracts (30 µg lysate) of Mouse lung (Lane 1), Rat lung (Lane 2), Mouse skeletal muscle (Lane 3), Rat heart (Lane 4) and Mouse heart (Lane 5). The blots were probed with Anti-Cardiac Troponin T Monoclonal Antibody (Product # MA5-12960, 1 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 40 kDa band corresponding to Cardiac Troponin T was observed across the tissue extracts tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).





Cardiac Troponin T Antibody (MA5-12960) in IHC (P)

Formalin-fixed, paraffin-embedded human heart stained with Troponin antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of cardiac muscle cells.

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Western Blot (12)

<p>The EMBO journal</p> <p>BNIP3L/NIX regulates both mitophagy and pexophagy.</p> <p>"MA5-12960 was used in Western Blotting to uncover a dual role for NIX, not only in mitophagy but also in pexophagy, thus illustrating the interconnection between selective autophagy pathways."</p> <p>Authors: Wilhelm LP,Zapata-Muñoz J,Villarejo-Zori B,Pellegriin S,Freire CM,Toye AM,Boya P,Ganley IG</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:500</p>
<p>International journal of molecular sciences</p> <p>Bioactive Lipid O-cyclic phytosphingosine-1-phosphate Promotes Differentiation of Human Embryonic Stem Cells into Cardiomyocytes via ALK3/BMPR Signaling.</p> <p>"MA5-12960 was used in Immunocytochemistry to identify cP1P as a novel factor that significantly enhances the differentiation potential of hESCs into cardiomyocytes."</p> <p>Authors: Jang JH,Kim MS,Antao AM,Jo WJ,Kim HJ,Kim SJ,Choi MJ,Ramakrishna S,Kim KS</p>	<p>Year 2021</p> <p>Species Human</p>

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Immunohistochemistry (64)

<p>Nature communications</p> <p>DOT1L regulates chamber-specific transcriptional networks during cardiogenesis and mediates postnatal cell cycle withdrawal.</p> <p>"MA5-12960 was used in Immunohistochemistry to reveal that H3K79me2 regulates highly specific transcriptional networks during embryonic cardiogenesis and postnatal cardiomyocyte cell cycle withdrawal."</p> <p>Authors: Cattaneo P,Hayes MGB,Baumgarten N,Hecker D,Peruzzo S,Aslan GS,Kunderfranco P,Larcher V,Zhang L, Contu R,Fonseca G,Spinozzi S,Chen J,Condorelli G,Dimmeler S,Schulz MH,Heinz S,Guimarães-Camboa N,Evans SM</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
<p>Stem cells international</p> <p>miRNAs in Extracellular Vesicles from iPS-Derived Cardiac Progenitor Cells Effectively Reduce Fibrosis and Promote Angiogenesis in Infarcted Heart.</p> <p>"MA5-12960 was used in Immunohistochemistry to report that extracellular vesicles (EV) secreted by ISX-9-induced CPCs (EV-CPCISX-9) faithfully recapitulate the beneficial effects of their parent CPCs with regard to postinfarction remodeling."</p> <p>Authors: Xuan W,Wang L,Xu M,Weintraub NL,Ashraf M</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:300</p>

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More applications with references on thermofisher.com

- IHC (P) (5)
- IHC (PFA) (4)
- IHC (F) (4)
- ICC/IF (104)
- Flow (54)
- ELISA (1)
- Misc (3)

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