

**Mouse Anti-Troponin I, Cardiac Muscle (Troponin I) [4C2]: MC0022, MC0022RTU7**

**Intended Use:** For Research Use Only

**Description:** Troponin is a complex of three regulatory proteins (Troponin I, Troponin T and Troponin C) that is integral to muscle contraction in skeletal and cardiac muscle, but not smooth muscle. There are three tissue-specific subtypes for Troponin I: slow-twitch skeletal muscle isoform troponin I (TNNI1), fast-twitch skeletal muscle isoform troponin I (TNNI2) and cardiac troponin I (TNNI3).

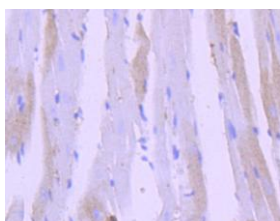
**Specifications**

Clone: 4C2  
 Source: Mouse  
 Isotype: IgG2a  
 Reactivity: Human, mouse, rat, rabbit, goat, cow, cat, dog, pig  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, WB  
 Package:

Description	Catalog No.	Size
Troponin I, Cardiac Muscle (Troponin I) Concentrated	MC0022	1 ml
Troponin I, Cardiac Muscle (Troponin I) Prediluted	MC0022RTU7	7 ml

**IHC Procedure**

Positive Control Tissue: Cardiac muscle  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human heart stained with anti-Troponin I using DAB

**References**

1. Gene Expression Networks in the Murine Pulmonary Myocardium Provide Insight into the Pathobiology of Atrial Fibrillation. Boutilier JK, et al. G3 (Bethesda) 7:2999-3017, 2017.
2. Local and sustained miRNA delivery from an injectable hydrogel promotes cardiomyocyte proliferation and functional regeneration after ischemic injury. Wang LL, et al. Nat Biomed Eng 1:983-992, 2017.
3. Molecular beacon-enabled purification of living cells by targeting cell type-specific mRNAs. Wile BM, et al. Nat Protoc 9:2411-24, 2014.