

Mouse Anti-Troponin I Cardiac Muscle [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).

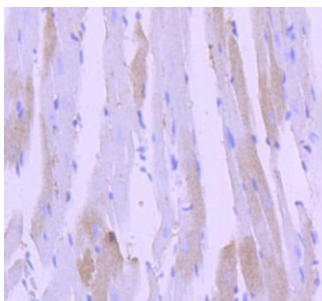
Specifications

Clone: 4C2
 Source: Mouse
 Isotype: IgG2a
 Reactivity: Human, mouse, rat, rabbit, goat, cow, cat, dog, pig
 Immunogen: Free human Troponin I cardiac
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IP, WB
 Package:

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

IHC Procedure

Positive Control Tissue: Cardiac muscle
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 min Pressure Cooker or 30-60 min 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

- 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.
- 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.
- Molecular beacon-enabled purification of living cells by targeting cell type-specific mRNAs. Wile BM, et al. Nat Protoc 9:2411-24, 2014.