Monoclonal Antibody to cTnI

Cat. #: Mab-605112 (0.1mg)

Description:
cTnI has an apparent molecular weight of 22.5 kDa. cTnI is a candidate marker with acceptable sensitivity and specificity for AMI and other cardiac diseases. Troponin, a molecule that binds to the thin filament (actin) of striated muscle fibers, acts with intracellular calcium to control the interaction of the thin filament with the thick filament (myosin), thus regulating muscle contraction. Troponin I prevents muscle contraction in the absence of calcium, which has two skeletal muscle isoforms with considerable amino acid sequence homology. cTnI contains an additional N-terminal sequence and is highly specific for myocardium.

Immunogen/Specificity:
Ni-NTA purified truncated recombinant cTnI expressed in E. Coli strain BL21 (DE3)

Applications :
Western Blot: Dilution 1: 200- 1: 1,000
IHC£¨P£©: Dilution 1: 100- 1,000
IHC£¨F£©: Dilution 1: 200- 1,000
ELISA: Propose dilution 1: 10,000.
Determining optimal working dilutions by titration test.

Formulation
Antibodies are purified by protein A affinity chromatography

Reference:
1. Cummins B and Cummins P, J Mol Cell Cardiol, 1987, 19(10):999-1010.
2. Cummins B, Auckland ML, and Cummins P, Am Heart J, 1987, 113(6):1333-44
3. Darnell J, Lodish H, and Baltimore D, Molecular Cell Biology, New York, NY: Scientific American Books, 1986, 827-8.

Clone Number:
Isotype:
Species: Human
Storage and Stability: stored at -20 C

4. Larue C, Defacque-Lacquemant H, Calzolari C, et al, Mol Immunol, 1992, 29(2):271-8.
5. Adams JE III, Bodor GS, Davila-Roman VG, et al, Circulation, 1993, 88(1):101-6.

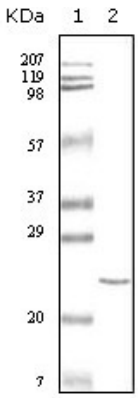

Figure 1: Western blot analysis using anti-human cTnI monoclonal antibody against truncated cTnI recombinant protein.

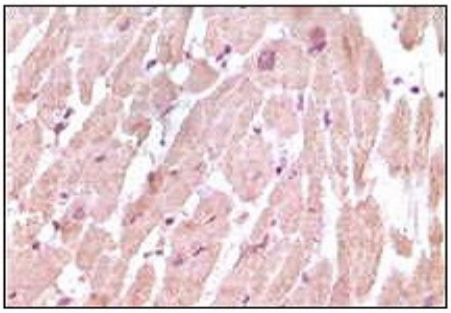

Figure2: Immunohistochemical analysis of paraffin-embedded human normal cardiac muscle tissue showing cytoplasmic localization, using cTnI antibody with DAB staining.

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