

## Mouse Monoclonal Antibody to cTnI

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| <b>Catalogue Number</b>        | sAP-0042  |
| <b>Target Molecule</b>         | <b>Name:</b> cTnI<br><b>Aliases:</b> CMH7; RCM1; cTnI; CMD2A; TNNC1<br><b>MW:</b> N/A<br><b>Entrez Gene ID: 7137</b>  |
| <b>Description</b>             | 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. |
| <b>Immunogen</b>               | Purified recombinant fragment of cTnI expressed in E. Coli.   |
| <b>Reactive Species</b>        | Human   |
| <b>Clone</b>                   | MM3A10A12;  |
| <b>Size and Concentration</b>  | 100µg/1mg/ml  |
| <b>Supplied as</b>             | Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.   |
| <b>Reconstitution/Storages</b> | Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage  |
| <b>Applications</b>            | ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000  |
| <b>Shipping</b>                | Regular FEDEX overnight shipment (ambient temperature)  |
| <b>Reference</b>               | 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   |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**