

Cardiac Troponin I Monoclonal Antibody

Catalog No: #42040

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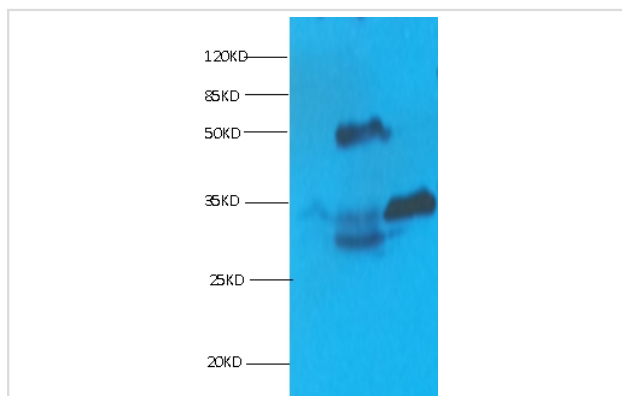
Description

Product Name	Cardiac Troponin I Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	protein G purified
Applications	WB
Species Reactivity	Hu
Specificity	Reacts equally with free cardiac troponin I and cardiac troponin I forming complexes with other troponin components. Not affected by heparin, phosphorylation and oxidation. No cross-reactivity with skeletal muscle troponin I.
Immunogen Type	protein
Immunogen Description	Recombinant Human Cardiac Troponin I protein
Target Name	Cardiac Troponin I
Other Names	CTnI
Accession No.	Swiss-Prot#: P19429
Uniprot	P19429
GeneID	7137;
Calculated MW	23kd
Concentration	1.0mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: □1:500 - 1:1000

Images



All lanes : Mouse monoclonal to Human Cardiac Troponin I at 1ug/ml

Line 1:rat heart muscle lysate

Line2:mouse heart muscle lysate

Line3:CTnI transfected SF9 cell lysate

Predicted band size : 23kd

Observed band size : 30kd

Background

Troponin I is part of a heteromeric complex playing an important role in the regulation of skeletal and cardiac muscle contraction. It consists of three subunits, troponin I (TnI), troponin T (TnT) and troponin C (TnC). Each subunit is responsible for part of troponin complex function. TnI inhibits ATPase activity of actomyosin and TnT and TnI are present in cardiac muscles in different forms than in skeletal muscles. Only one tissue specific isoform of TnI is described for cardiac muscle tissue (cTnI) and this is expressed only in myocardium.

References

[1] Apple FS. Tissue specificity of cardiac troponin I, cardiac troponin T and creatine Kinase-MB[J]. Clin Chim Acta, 1999, 284: 151-159 [2] Stein PD, Janjua M, Matta F, Pathak PK, Jaweesh F, Alrifai A, Chughtai HL. Prognosis based on creatine kinase isoenzyme

Note: This product is for in vitro research use only