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Recombinant Phospho-Cardiac Troponin I (Ser23, Ser24) Monoclonal Antibody

catalog number: AN302104L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human;

Immunogen Peptide. This information is proprietary to PTMab

HostRabbitIsotype IgG, κ CloneA828

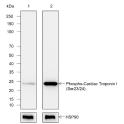
Purification Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

WB 1:5000-1:10000

Data



Western Blot with Phospho-Cardiac Troponin I (Ser23,

Ser24) Monoclonal Antibody at dilution of 1:10000. Lane 1:

Human heart, then the membrane treated with lambda protein phosphatase (400 U/ml) at 30°C for 1 hour, Lane 2:

Human heart

Observed-MW:25 kDa Calculated-MW:24 kDa

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

Cardiac troponin is composed of three subunits, namely cardiac troponin T (cTnT), cardiac troponin I (cTnI), and cardiac troponin C (cTnC). They collectively participate in the regulation of cardiac muscle contraction. The aminoterminal and carboxyl-terminal ends of cTnImolecules are prone to degradation through protein hydrolysis. Cardiac troponin I (cTnI) is an important regulatory factor that inhibits musclecontraction under normal circumstances. It binds to actin, preventing the interaction between actin and cardiac troponin C (cTnC), thusinhibiting muscle contraction. The phosphorylation status of cTnI can alter its affinity for actin, thereby influencing the regulation of musclecontraction. The serine residues at positions 22 and 23 of cTnI are susceptible to phosphorylation by protein kinase A, which regulatesmuscle contraction. Abnormal levels of phosphorylation may also contribute to muscle dysfunction or the development of heart disease.

For Research Use Only

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 Rev. V1.0