

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

catalog number: AN302104L

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

Description

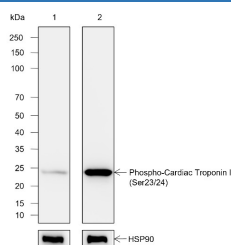
Reactivity	Human
Immunogen	Peptide. This information is proprietary to PTMab
Host	Rabbit
Isotype	IgG, κ
Clone	C331725
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:5000-1:10000
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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 amino-terminal and carboxyl-terminal ends of cTnI molecules are prone to degradation through protein hydrolysis. Cardiac troponin I (cTnI) is an important regulatory factor that inhibits muscle contraction under normal circumstances. It binds to actin, preventing the interaction between actin and cardiac troponin C (cTnC), thus inhibiting muscle contraction. The phosphorylation status of cTnI can alter its affinity for actin, thereby influencing the regulation of muscle contraction. The serine residues at positions 22 and 23 of cTnI are susceptible to phosphorylation by protein kinase A, which regulates muscle contraction. Abnormal levels of phosphorylation may also contribute to muscle dysfunction or the development of heart disease.

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