

For Research Use Only

# Phospho-Cardiac Troponin I (Ser23/24) Polyclonal antibody



Catalog Number: 30937-1-AP

## Basic Information

Catalog Number:

30937-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC096165

GeneID (NCBI):

7137

UNIPROT ID:

P19429

Full Name:

troponin I type 3 (cardiac)

Calculated MW:

210 aa, 24 kDa

Observed MW:

26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, mouse

Positive Controls:

WB: mouse heart tissue, λ phosphatase treated mouse heart tissue

## Background Information

Cardiac Troponin I (cTnI) is produced by cardiac muscle. To date, most investigative effort in phosphorylation mediated regulation of cTnI function has focused on the actions of PKA and PKC. Evidence from studies in a variety of systems, ranging from reconstituted myofilament proteins to cultured myocytes or transgenic animals with heterologous expression of modified cTnI proteins, indicates that PKA-mediated functional effects (eg, decreased myofilament Ca<sup>2+</sup> sensitivity) are mediated principally through the phosphorylation of Ser22/23 (equivalent to Ser23/24, including the initiating Met, in the rodent sequence) within the unique N-terminal extension of cTnI. (PMID: 15514163)

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

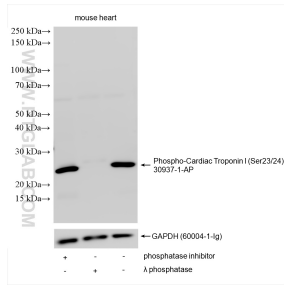
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## Selected Validation Data



Phosphatase inhibitor treated mouse heart tissue, phosphatase treated mouse heart tissue, and non-treated mouse heart tissue were subjected to SDS PAGE followed by western blot with 30937-1-AP (Phospho-TNNI3 (Ser23/24) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.