

For Research Use Only

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

Catalog Number: 30937-1-AP



Basic Information

Catalog Number: 30937-1-AP	GenBank Accession Number: BC096165	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 550 ug/ml by Nanodrop;	GeneID (NCBI): 7137	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: P19429	
Isotype: IgG	Full Name: troponin I type 3 (cardiac)	
	Calculated MW: 210 aa, 24 kDa	
	Observed MW: 26 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse heart tissue, λ phosphatase treated mouse heart tissue
Species Specificity: Human, mouse	

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 Ca²⁺ 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

*** 20ul sizes contain 0.1% BSA

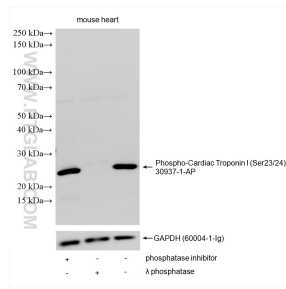
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Phosphatase inhibitor treated mouse heart tissue, a 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.