

For Research Use Only

Cardiac Troponin I Polyclonal antibody



Catalog Number: 21652-1-AP

Featured Product

30 Publications

Basic Information

Catalog Number:

21652-1-AP

Size:

150ul, Concentration: 450 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16365

GenBank Accession Number:

BC096165

GeneID (NCBI):

7137

Full Name:

troponin I type 3 (cardiac)

Calculated MW:

210 aa, 24 kDa

Observed MW:

24-26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF 1:300-1:1200

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

ELISA, IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB: rat heart tissue, HEK-293 cells, mouse heart tissue

IP: mouse heart tissue,

IHC: mouse heart tissue, human heart tissue, mouse lung tissue

IF: mouse heart tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Troponin I (TnI) is the inhibitory subunit of troponin, the structural protein involved in the regulation of striated muscle contraction. Cardiac Troponin I (cTnI) is produced by cardiac muscle. cTnI has been considered as one of the most specific and sensitive markers of myocardial damage like acute myocardial infarction (AMI) for decades. Detection of cTnI in serum is widely accepted as a diagnostic tool in acute coronary syndromes.

Notable Publications

Author	Pubmed ID	Journal	Application
Xin Li	31534118	Cell Death Dis	WB
Qianyun Nie	36267753	Ann Transl Med	WB
Lingfei Li	30327268	EBioMedicine	IF

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

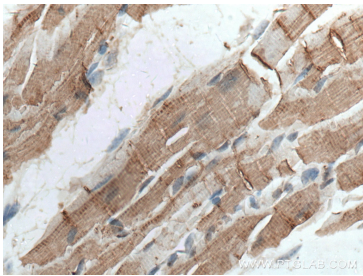
For technical support and original validation data for this product please contact:

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

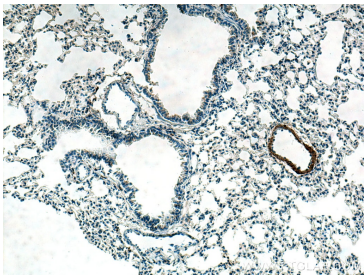
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

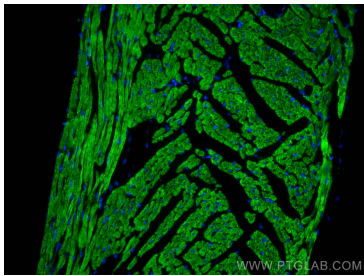
Selected Validation Data



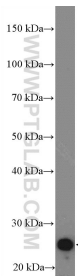
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 21652-1-AP (Cardiac Troponin I antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



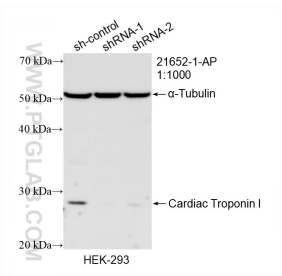
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 21652-1-AP (Cardiac Troponin I antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



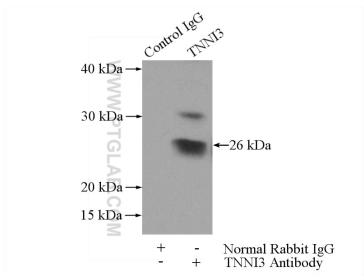
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Cardiac Troponin I antibody (21652-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



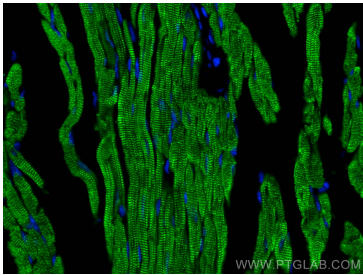
rat heart tissue were subjected to SDS PAGE followed by western blot with 21652-1-AP (Cardiac Troponin I antibody at dilution of 1:3000 incubated at room temperature for 1.5 hours.



WB result of Cardiac Troponin I antibody (21652-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cardiac Troponin I transfected HEK-293 cells.



IP Result of anti-Cardiac Troponin I (IP:21652-1-AP, 3ug; Detection:21652-1-AP 1:700) with mouse heart tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Cardiac Troponin I antibody (21652-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).