

For Research Use Only

Cardiac Troponin I Polyclonal antibody

Catalog Number: 21652-1-AP

Featured Product

40 Publications



Basic Information

Catalog Number:

21652-1-AP

Concentration:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16365

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:

24-26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:20000-1:100000

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

IHC: 1:500-1:2000

IF-P: 1:300-1:1200

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, ELISA

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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

Positive Controls:

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

IP : mouse heart tissue,

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

IF-P : mouse heart tissue,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

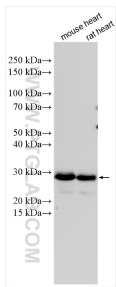
T: 4006900926

E: Proteintech-CN@ptglab.com

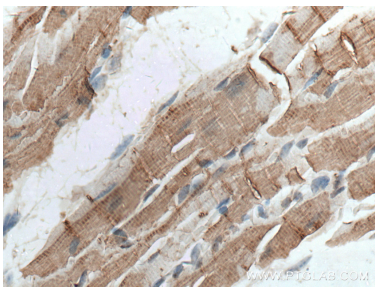
W: ptgcn.com

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

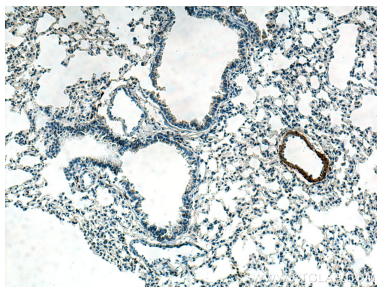
Selected Validation Data



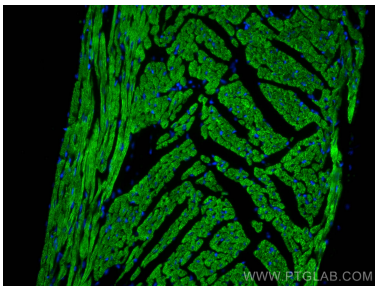
Various lysates were subjected to SDS PAGE followed by western blot with 21652-1-AP (Cardiac Troponin I antibody) at dilution of 1:80000 incubated at room temperature for 1.5 hours.



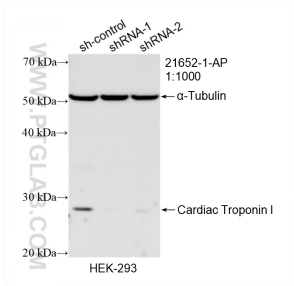
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 21652-1-AP (Cardiac Troponin I antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



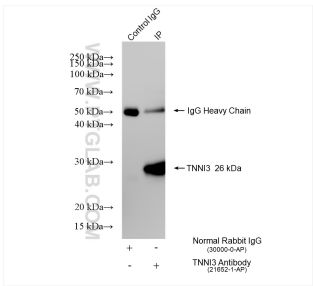
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 21652-1-AP (Cardiac Troponin I antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



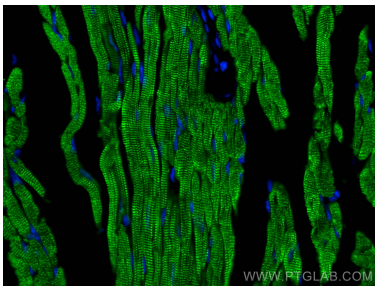
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Cardiac Troponin I antibody (21652-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



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, 4ug; Detection:21652-1-AP 1:30000) with mouse heart tissue lysate 1200 ug.



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 Goat Anti-Rabbit IgG(H+L).