

For Research Use Only

Cardiac Troponin T Polyclonal antibody

Catalog Number: 15513-1-AP

75 Publications



Basic Information

Catalog Number: 15513-1-AP	GenBank Accession Number: BC002653	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 7139	Recommended Dilutions: WB: 1:5000-1:50000
Source: Rabbit	UNIPROT ID: P45379	IHC: 1:50-1:500
Isotype: IgG	Full Name: troponin T type 2 (cardiac)	IF-P: 1:50-1:500
Immunogen Catalog Number: AG7716	Calculated MW: 36 kDa	IF-Fro: 1:50-1:500
	Observed MW: 34-40 kDa	

Applications

Tested Applications: WB, IHC, IF-P, IF-Fro, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : pig heart tissue, human heart tissue, mouse skeletal muscle tissue, rat heart tissue, mouse heart tissue
Species Specificity: human, mouse, rat	IHC : mouse heart tissue,
Cited Species: human, mouse, rat, pig, zebrafish	IF-P : 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	IF-Fro : mouse heart tissue,

Background Information

Cardiac Troponin T, also named as cTnT, TNNT2. This gene encodes the cardiac isoform of troponin T. The encoded protein is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Cardiac Troponin T can be detected as about 34-40 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Jie Shen	36085540	Hum Cell	WB,IF
XiaoLin Sun	32963547	Stem Cells Int	IF
Xueyi Weng	36266658	J Nanobiotechnology	IF

Storage

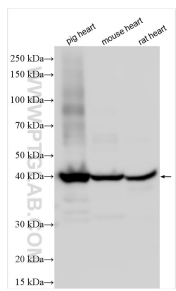
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

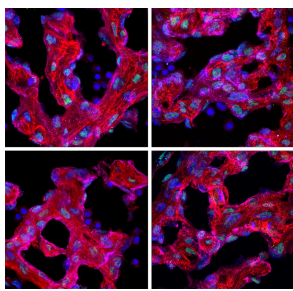
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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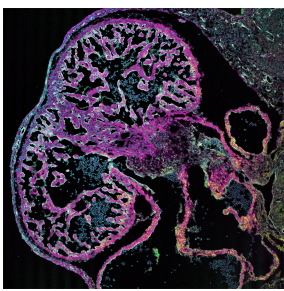
Selected Validation Data



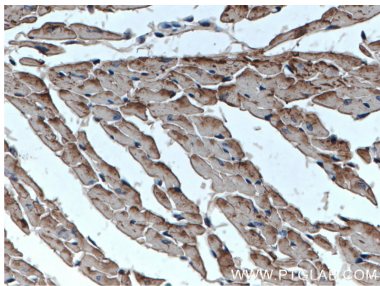
Various lysates were subjected to SDS PAGE followed by western blot with 15513-1-AP (Cardiac Troponin T antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Frozen tissue section of embryonic mouse heart (E12.5) was stained for cardiac troponin-T/cTnT (red, Cat. No 15513-1-AP), CD31/PECAM-1 (magenta), and Arl13B (green, Cat. No 66739-1-Ig) with DAPI as a counterstain for visualizing the nucleus (blue). cTnT stains cardiomyocytes and was visualized with an Alexa Fluor 555 secondary antibody. CD31 stains endocardial/endothelial cells and was visualized with an Alexa Fluor 647



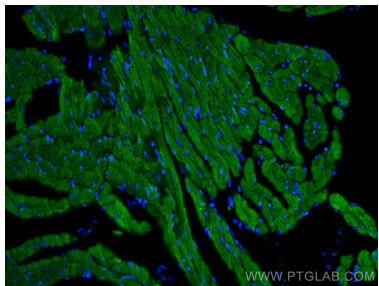
Frozen tissue section of embryonic mouse heart (E12.5) was stained for cardiac troponin-T/cTnT (magenta, Cat. No 15513-1-AP), CD31/PECAM-1 (white), and Arl13B (yellow, Cat. No 66739-1-Ig) with DAPI as a counterstain for visualizing the nucleus (cyan). cTnT stains cardiomyocytes and was visualized with an Alexa Fluor 555 secondary antibody and pseudocolored to magenta. CD31 stains endocardial/endothelial cells and was



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 15513-1-AP (Cardiac Troponin T antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 15513-1-AP (Cardiac Troponin T antibody) at dilution of 1:200 (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 T antibody (15513-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).