

For Research Use Only

Cardiac Troponin T Recombinant monoclonal antibody

Catalog Number: 81638-3-RR



Basic Information

Catalog Number:	81638-3-RR	GenBank Accession Number:	BC002653	Purification Method:	Protein A purification
Concentration:	1000 µg/ml	GeneID (NCBI):	7139	CloneNo.:	250230B1
Source:	Rabbit	UNIPROT ID:	P45379	Recommended Dilutions:	WB: 1:5000-1:50000
Isotype:	IgG	Full Name:	troponin T type 2 (cardiac)	IHC: 1:1000-1:4000	IF-P: 1:250-1:1000
Immunogen Catalog Number:	AG7716	Calculated MW:	36 kDa		
		Observed MW:	34-40 kDa		

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat, pig

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, human heart tissue, pig heart tissue

IHC: mouse heart tissue,

IF-P: 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.

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:

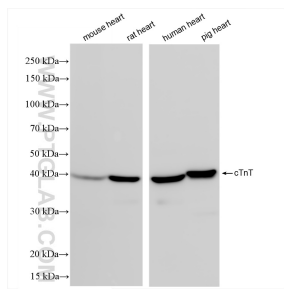
T: 4006900926

E: Proteintech-CN@ptglab.com

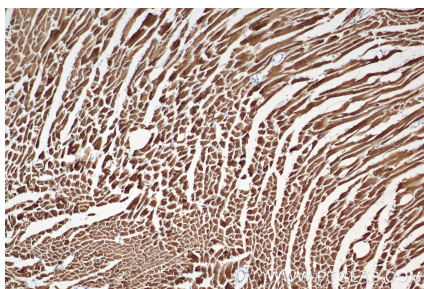
W: ptgcn.com

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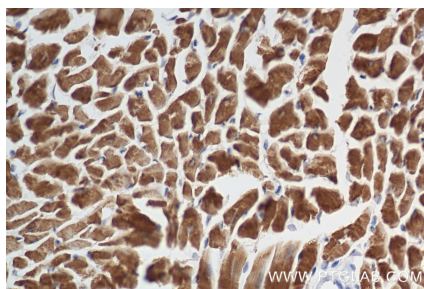
Selected Validation Data



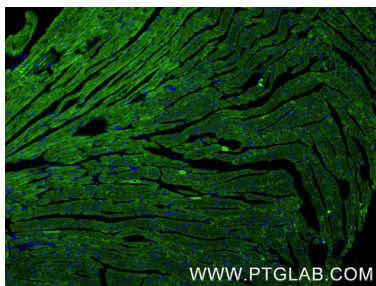
Various lysates were subjected to SDS PAGE followed by western blot with 81638-3-RR (cTnT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



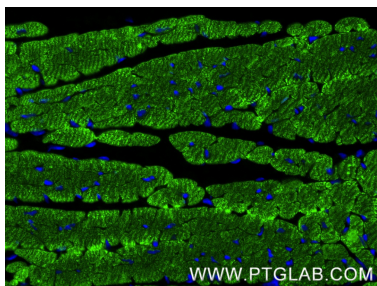
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 81638-3-RR (cTnT antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 81638-3-RR (cTnT antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using cTnT antibody (81638-3-RR, Clone: 250230B1) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using cTnT antibody (81638-3-RR, Clone: 250230B1) at dilution of 1:500 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).