

For Research Use Only

Cardiac Troponin T Monoclonal antibody

Catalog Number: 68300-1-Ig **7 Publications**



Basic Information

Catalog Number: 68300-1-Ig	GenBank Accession Number: BC002653	Purification Method: Protein G purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 7139	CloneNo.: 4E2D8
Source: Mouse	UNIPROT ID: P45379	Recommended Dilutions: WB 1:20000-1:100000
Isotype: IgG1	Full Name: troponin T type 2 (cardiac)	IHC 1:4000-1:16000
Immunogen Catalog Number: AG7716	Calculated MW: 36 kDa	IF-P 1:200-1:800
	Observed MW: 34-40 kDa	IF/ICC 1:200-1:800

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : rat heart tissue, pig heart tissue, rabbit heart tissue, mouse heart tissue, chicken heart tissue
Cited Applications: IF	IHC : rat heart tissue,
Species Specificity: human, mouse, rat, pig, rabbit, chicken	IF-P : mouse heart tissue,
Cited Species: human, mouse, rat, rabbit	IF/ICC : H9C2 cells,
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

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
Tao Yang	39569022	J Inflamm Res	IF
Mingyue Tan	39134283	Biochem Pharmacol	IF
Wenyan Wang	38925286	Eur J Pharmacol	IF

Storage

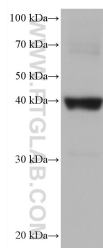
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

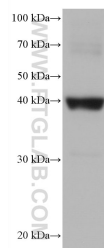
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

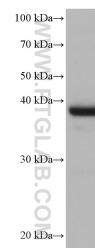
Selected Validation Data



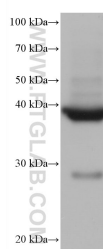
pig heart tissue were subjected to SDS PAGE followed by western blot with 68300-1-Ig (cTnT antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



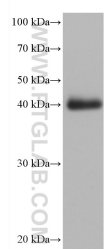
rabbit heart tissue were subjected to SDS PAGE followed by western blot with 68300-1-Ig (cTnT antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



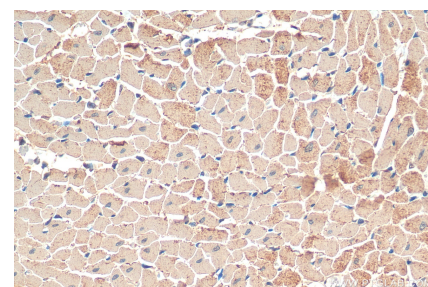
rat heart tissue were subjected to SDS PAGE followed by western blot with 68300-1-Ig (cTnT antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



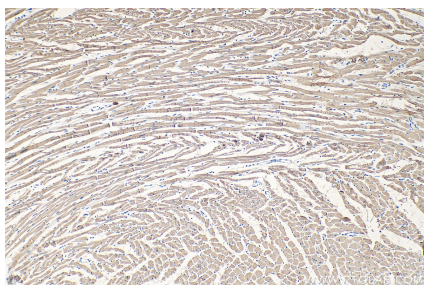
mouse heart tissue were subjected to SDS PAGE followed by western blot with 68300-1-Ig (cTnT antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



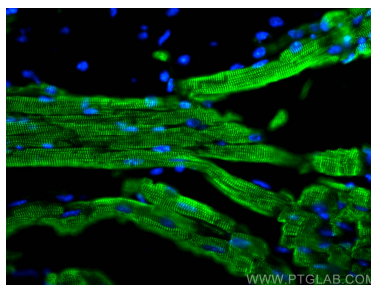
chicken heart tissue were subjected to SDS PAGE followed by western blot with 68300-1-Ig (cTnT antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



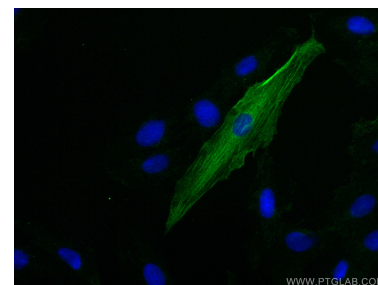
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 68300-1-Ig (Cardiac Troponin T antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 68300-1-Ig (Cardiac Troponin T antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using cTnT antibody (68300-1-Ig, Clone: 4E2D8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed H9C2 cells using Cardiac Troponin T antibody (68300-1-Ig, Clone: 4E2D8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).