

For Research Use Only

# CoraLite® Plus 647-conjugated Cardiac Troponin T Monoclonal antibody

Catalog Number: CL647-68300



## Basic Information

Catalog Number: CL647-68300	GenBank Accession Number: BC002653	Purification Method: Protein G purification
Source: Mouse	GeneID (NCBI): 7139	CloneNo.: 4E2D8
Isotype: IgG1	UNIPROT ID: P45379	Recommended Dilutions: IF-P: 1:50-1:500
Immunogen Catalog Number: AG7716	Full Name: troponin T type 2 (cardiac)	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
	Calculated MW: 36 kDa	
	Observed MW: 34-40 kDa	

## Applications

Tested Applications: IF-P	Positive Controls: IF-P: mouse heart tissue,
Species Specificity: human, mouse, rat, pig, rabbit, chicken	

## 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. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

T: 4006900926

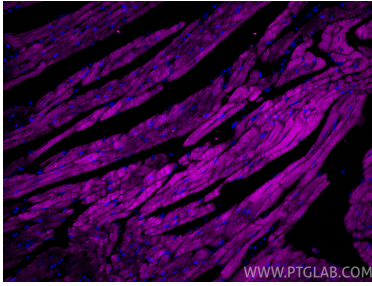
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using CoraLite® Plus 647 Cardiac Troponin T antibody (CL647-68300, Clone: 4E2D8 ) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).