

For Research Use Only

# CTNNA3 Recombinant monoclonal antibody, PBS Only

Catalog Number:87022-1-PBS



## Basic Information

<b>Catalog Number:</b> 87022-1-PBS	<b>GenBank Accession Number:</b> BC030646	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 29119	<b>CloneNo.:</b> 252141F2
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q9UI47	
<b>Immunogen Catalog Number:</b> AG5008	<b>Full Name:</b> catenin (cadherin-associated protein), alpha 3	
	<b>Calculated MW:</b> 100 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, Indirect ELISA

**Species Specificity:**  
human, mouse, rat, canine

## Background Information

Alpha catenin is an essential component of adherens junctions that connects E-cadherin- $\beta$ -catenin complexes with the actin cytoskeleton. The alpha catenin family of proteins consists of three members, alpha-E-catenin (CTNNA1), alpha-N-catenin (CTNNA2), and alpha-T-catenin (CTNNA3)(PMID: 21598020). CTNNA3 is a cell adhesion molecule. In intercalated discs of the heart, CTNNA3 is a component of a unique hybrid adhering junction, or area composita, that contains proteins associated with both desmosomes and adherens junctions (PMID: 22421363). Mutations in CTNNA3 are associated with arrhythmogenic right ventricular dysplasia, familial 13(PMID: 23136403).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

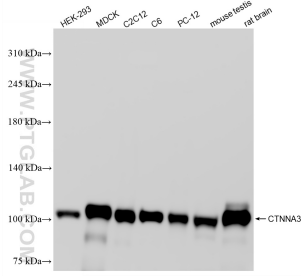
T: 4006900926

E: Proteintech-CN@ptglab.com

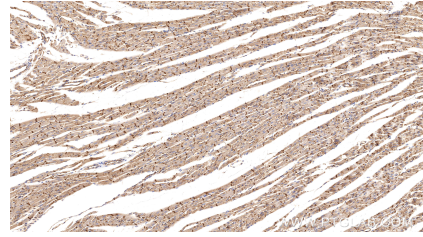
W: ptgcn.com

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

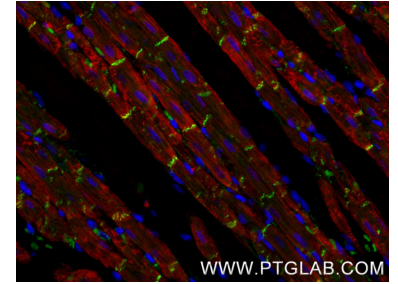
## Selected Validation Data



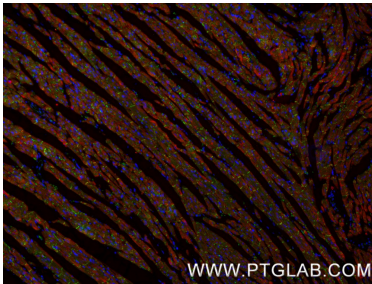
Various lysates were subjected to SDS PAGE followed by western blot with 87022-1-RR (CTNNA3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87022-1-PBS in a different storage buffer formulation.



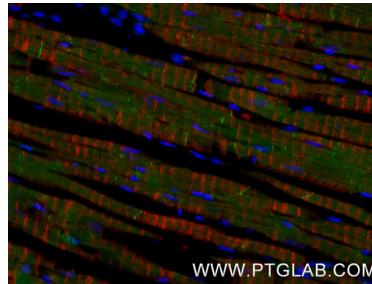
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 87022-1-RR (CTNNA3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87022-1-PBS in a different storage buffer formulation.



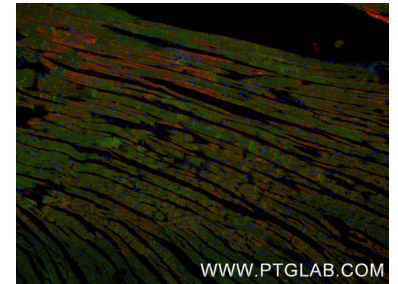
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat heart tissue using CTNNA3 antibody (87022-1-RR, Clone: 252141F2, green) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Cardiac Troponin T antibody (68300-1-Ig, Clone: 4E2D8, red) at dilution of 1:200 and Multi-rAb@ CoraLite@ Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM004). Heat mediated antigen retrieval with Tris-EDTA



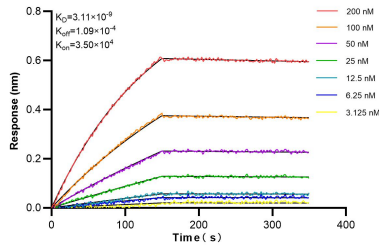
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Biolayer interferometry (BLI) kinetic assays of 87022-1-RR against Human CTNNA3 were performed. The affinity constant is 3.11 nM.