

For Research Use Only

# Titin Polyclonal antibody

Catalog Number: 27867-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 27867-1-AP	<b>GenBank Accession Number:</b> NM_001256850	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 700 ug/ml	<b>GeneID (NCBI):</b> 7273	<b>Recommended Dilutions:</b> IHC 1:200-1:800 IF-P 1:50-1:500 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8WZ42	
<b>Isotype:</b> IgG	<b>Full Name:</b> titin	
<b>Immunogen Catalog Number:</b> AG27496	<b>Calculated MW:</b> 3816 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> IHC : mouse heart tissue, mouse skeletal muscle tissue IF-P : mouse skeletal muscle tissue, mouse heart tissue IF/ICC : NIH/3T3 cells,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Titin, or connectin, is a giant muscle protein expressed in the cardiac and skeletal muscles that spans half of the sarcomere from Z line to M line. It plays a key role in muscle contraction and relaxation, maintaining the structural integrity of the myotome (PMID: 11846417). Mutations in Titin are associated with familial hypertrophic cardiomyopathy 9, and autoantibodies to titin are produced in patients with the autoimmune disease scleroderma (PMID: 15802564).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jie Wang	34783308	Elife	IF
Sun-Ho Lee	34952434	Stem Cell Res	IF
Shelby Dahlen	39746869	Physiol Rep	IF

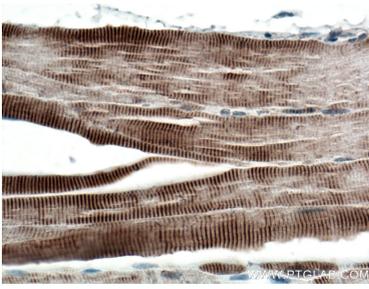
## Storage

**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

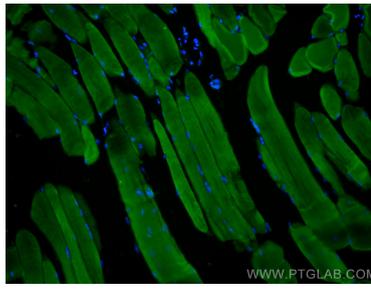
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

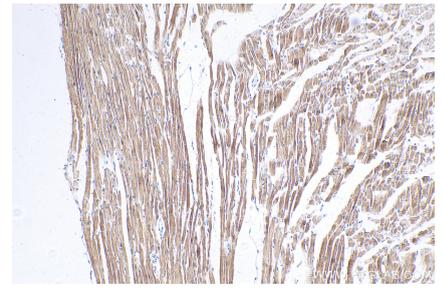
## Selected Validation Data



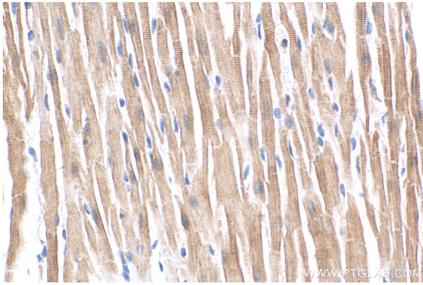
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 27867-1-AP (Titin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



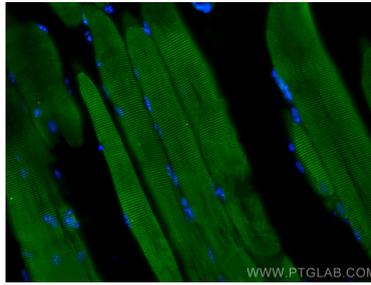
Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using Titin antibody (27867-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



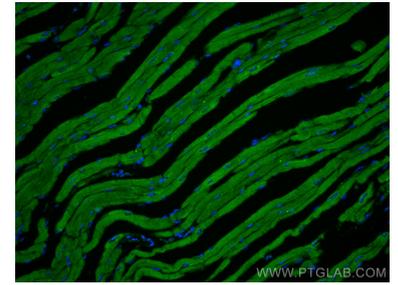
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 27867-1-AP (Titin antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



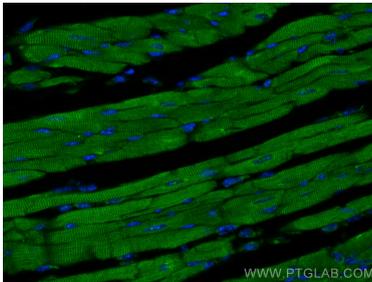
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 27867-1-AP (Titin antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



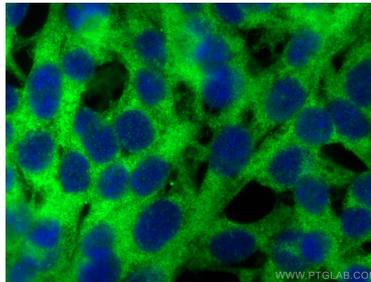
Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using Titin antibody (27867-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Titin antibody (27867-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Titin antibody (27867-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using Titin antibody (27867-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).