

TTN Rabbit Polyclonal Antibody



CAB16730

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

Refer to figures

Calculated MW:

3816KDa

Applications:

IF

Reactivity:

Mouse, Rat

Protein Background

This gene encodes a large abundant protein of striated muscle. The product of this gene is divided into two regions, a N-terminal I-band and a C-terminal A-band. The I-band, which is the elastic part of the molecule, contains two regions of tandem immunoglobulin domains on either side of a PEVK region that is rich in proline, glutamate, valine and lysine. The A-band, which is thought to act as a protein-ruler, contains a mixture of immunoglobulin and fibronectin repeats, and possesses kinase activity. An N-terminal Z-disc region and a C-terminal M-line region bind to the Z-line and M-line of the sarcomere, respectively, so that a single titin molecule spans half the length of a sarcomere. Titin also contains binding sites for muscle associated proteins so it serves as an adhesion template for the assembly of contractile machinery in muscle cells. It has also been identified as a structural protein for chromosomes. Alternative splicing of this gene results in multiple transcript variants. Considerable variability exists in the I-band, the M-line and the Z-disc regions of titin. Variability in the I-band region contributes to the differences in elasticity of different titin isoforms and, therefore, to the differences in elasticity of different muscle types. Mutations in this gene are associated with familial hypertrophic cardiomyopathy 9, and autoantibodies to titin are produced in patients with the autoimmune disease scleroderma.

Immunogen information

Gene ID:

7273

Uniprot

Q8WZ42

Synonyms:

TTN; CMD1G; CMH9; CMPD4; EOMFC; HMERF; LGMD2J; MYLK5; TMD; SALMY; titin

Immunogen:

Recombinant Protein of human TTN.

Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Antibody Information

Recommended dilutions:

IF 1:50 - 1:200

Source:

Rabbit

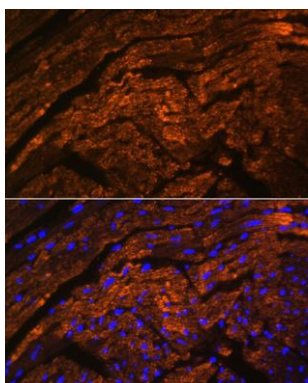
Isotype:

IgG

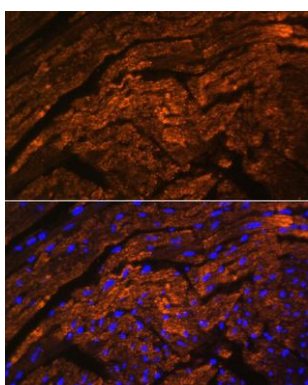
Purification:

Affinity purification

Product Images



Immunofluorescence analysis of rat heart using TTN antibody (CAB16730) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of mouse heart using TTN antibody (CAB16730) at dilution of 1:100. Blue: DAPI for nuclear staining.