## **TTN Rabbit Polyclonal Antibody**





**Product Information** 

**Product SKU**: CAB16730 **Gene ID**: 7273 **Size**: 20uL, 100uL

Clone No: - Host Species: Rabbit Reactivity: Mouse, Rat

**Additional Information** 

Observed MW: Refer to figures Conjugate: -

Calculated MW: 3816kDa Isotype: IgG

## **Immunogen Information**

**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.

**Recommended Dilution**: IF/ICC,1:50 - 1:200

Synonyms: TMD; CMH9; CMD1G; CMPD4; CMYP5; EOMFC; HMERF; MYLK5; SALMY; LGMD2J; LGMDR10; TTN

**Purifcation Method**: Affinity purification

**Immunogen**: Recombinant fusion protein containing a sequence corresponding to amino acids 5347-5604 of human

TTN (NP\_596870.2).

Storage: Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.