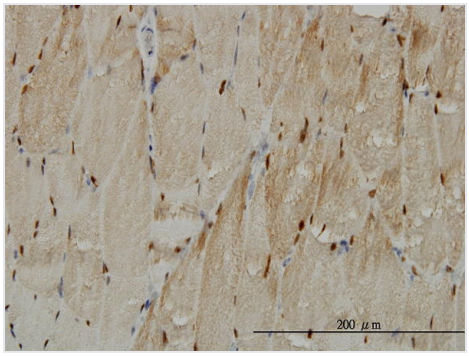
TTN Antibody – Mouse Monoclonal

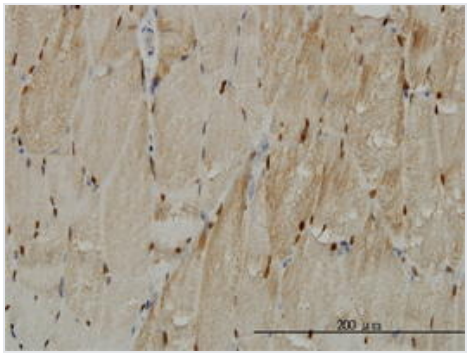
PRODUCT OVERVIEW

Product Name	TTN, Monoclonal Antibody
Full Product Name	TTN (Titin, CMD1G, CMH9, CMPD4, CONNECTIN, DKFZp451N061, EOMFC, FLJ26020, FLJ26409, FLJ32040, FLJ34413, FLJ39564, FLJ43066, HM LGMD2J, TMD) (AP)
Product Gene Name	anti-TTN antibody
Product Synonym Names	Titin; CMD1G; CMH9; CMPD4; CONNECTIN; DKFZp451N061; EOMFC; FLJ26020; FLJ26409; FLJ32040; FLJ34413; FLJ39564; FLJ43066; HMERF; TMD
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2B3
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes TTN.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	TTN (AAH58824, 1aa-110aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MTTQAPTFTQPLQSVVVLEGSTATFEAHISGFPVPEVSWFRDGQVISTSTLPGVQISFSDGRAKLTIPAVTKANSGRYSLKATNGSGQATSTAELLVKAETA
Conjugate	AP
Product Categories/Family for anti-TTN antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-TTN antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-TTN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TTN antibody	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-termin 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 ri 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 p kinase activity. A 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 titi 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 asser contractile machinery in muscle cells. It has also been identified as a structural protein for chromosomes. Considerable variability exists in the I-band, th 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 dif elasticity of different muscle types. Of the many titin variants identified, five for which complete transcript information is available are described. Mutatio gene are associated with familial hypertrophic cardiomyopathy 9 and autoantibodies to titin are produced in patients with the autoimmune disease scler [provided by RefSeq]

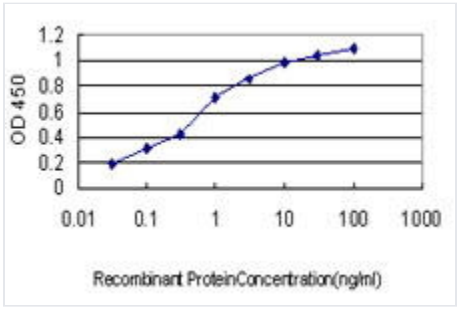
Other Notes	Small volumes of anti-TTN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.
Searchable Terms for TTN purchase	MBS6161772 is an antibody targeting TTN. Also known as TTN (Titin, CMD1G, CMH9, CMPD4, CONNECTIN, DKFZp451N061, EOMFC, FLJ26020, F FLJ32040, FLJ34413, FLJ39564, FLJ43066, HMERF, LGMD2J, TMD) (AP). Host: Mouse.



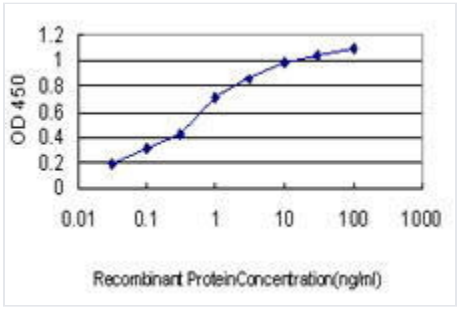
Testing Data of anti-TTN antibody
Immunoperoxidase of monoclonal antibody to TTN on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 1 ug/ml]



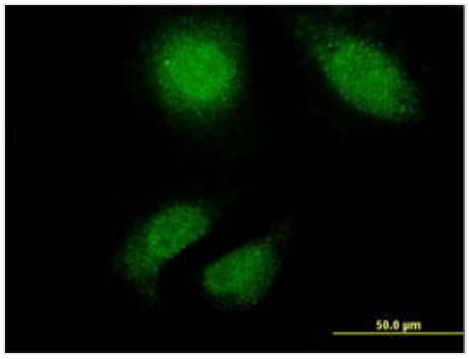
Immunohistochemistry (IHC) of anti-TTN antibody
Immunoperoxidase of monoclonal antibody to TTN on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 1 ug/ml]



Testing Data of anti-TTN antibody
Detection limit for recombinant GST tagged TTN is approximately 0.03ng/ml as a capture antibody.



Immunofluorescence (IF) of anti-TTN antibody
Immunofluorescence of monoclonal antibody to TTN on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-TTN antibody
Immunofluorescence of monoclonal antibody to TTN on HeLa cell. [antibody concentration 10 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TTN. It may not necessarily be applicable to this product.

NCBI GI #	37573987
NCBI GeneID	7273
NCBI Accession #	AAH58824

UniProt Related Accession #	Q8WZ42
NCBI Official Full Name	TTN protein, partial
NCBI Official Synonym Full Names	titin
NCBI Official Symbol	TTN
NCBI Official Synonym Symbols	TMD; CMH9; CMD1G; CMPD4; EOMFC; HMERF; MYLK5; SALMY; LGMD2J; LGMDR10
Protein Family	Titin
NCBI Protein Information	titin
NCBI Summary for TTN	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. [provided by RefSeq, Feb 2012]
Research Articles on TTN	**1.** Individuals of European ancestry with titin truncating variants have an abnormal cardiac phenotype with lower left ejection fraction.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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