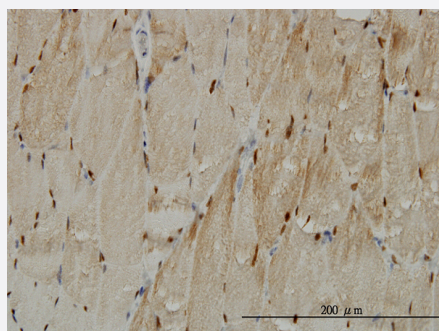


TTN monoclonal antibody (M02), clone 2B3

Catalog # H00007273-M02

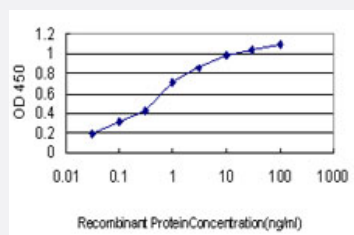
Size 100 ug

Applications



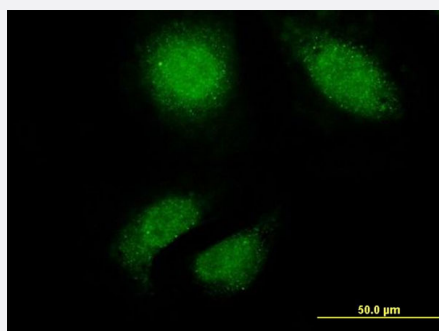
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



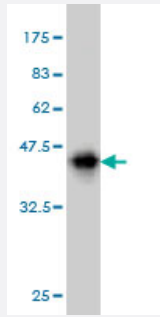
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TTN is approximately 0.03ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to TTN on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant TTN.
Immunogen	TTN (AAH58824, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MTTQAPTFTQPLQSVVLEGSTATFEAHISGFPVPEVSWFRDGGVISTSTLPGVQISFSDGRAKLTI PAVTKANSGRYSLKATNGSGQATSTAELLVKAETAPPNFVQRL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TTN is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to TTN on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — TTN

Entrez GeneID	7273
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GeneBank Accession#	BC058824
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Protein Accession#	AAH58824
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Gene Name	TTN
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Gene Alias	CMD1G, CMH9, CMPD4, CONNECTIN, DKFZp451N061, EOMFC, FLJ26020, FLJ26409, FLJ32040, FLJ34413, FLJ39564, FLJ43066, HMERF, LGMD2J, TMD
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Gene Description	titin
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Omim ID	188840 600334 603689 604145 608807
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Gene Ontology	Hyperlink
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Gene Summary

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 P EVK 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. 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 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. 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. Of the many titin variants identified, five for which complete transcript information is available are described. 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]

Other Designations

rhabdomyosarcoma antigen MU-RMS-40.14

Publication Reference

- [Novel Mutation of the GNE Gene Presenting Atypical Mild Clinical Feature: A Korean Case Report.](#)

Choi YA, Park SH, Yi Y, Kim K.

Annals of Rehabilitation Medicine 2015 Jun; 39(3):494.

Application: IHC, Human, Human muscle biopsy

Pathway

- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)