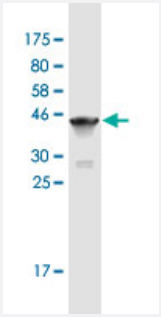
TTN monoclonal antibody (M07A), clone 2F12

Catalog # H00007273-M07A Size 200 uL

Applications



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	MTTQAPTFTQPLQSVVVLEGSTATFEAHISGFPVPEVSWFRDGQVISTSTLPGVQISFSDGRAKLTIPAVTKANSGRYSLKATNGSGQATSTAELLVKAETAPPNFVQRL
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 ascites fluid
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — TTN

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

Pathway

- Hypertrophic cardiomyopathy (HCM)

Disease

- Cardiomyopathy
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease
- Edema
- Genetic Predisposition to Disease