



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### TTN monoclonal antibody (MA07), clone 2F12 (APC)

**Catalog Number:** H00007273-MA07

**Regulation Status:** For research use only (RUO)

**Product Description:** APC conjugated mouse monoclonal antibody raised against a partial recombinant TTN.

**Clone Name:** 2F12

**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:**

MTTQAPTFTQLQSVVVLEGSTATFEAHISGFPVPEVS  
WFRDGGVISTSTLPGVQISFSDGRAKLTIPTAVTKANS  
G  
RYSLKATNGSGQATSTAELLVKAETAPPNFVQRL

**Host:** Mouse

**Interspecies Antigen Sequence:** Mouse (93)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product  
page for detailed protocols

**Conjugation:** APC

**Isotype:** IgG2b Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to  
avoid repeated freezing and thawing.

**Entrez GeneID:** 7273

**Gene Symbol:** TTN

**Gene Alias:** CMD1G, CMH9, CMPD4, CONNECTIN,  
DKFZp451N061, EOMFC, FLJ26020, FLJ26409,  
FLJ32040, FLJ34413, FLJ39564, FLJ43066, HMERF,  
LGMD2J, TMD

**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]