

Rabbit anti-Mouse, Rat TTN Antibody | anti-TTN antibody

TTN Rabbit pAb

CATALOG # AAA282306	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunofluorescence
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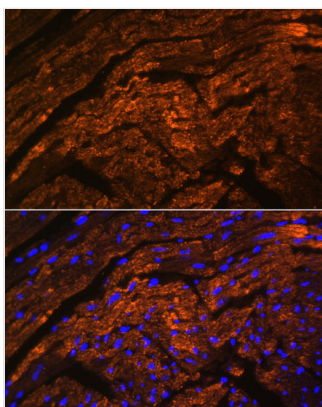
PRODUCT SYNONYMS

TTN; TTN Rabbit pAb; CMD1G; CMH9; CMPD4; EOMFC; HMERF; LGMD2J; MYLK5; TMD; SALMY; titin; anti-TTN antibody

PRODUCT SPECIFICATIONS

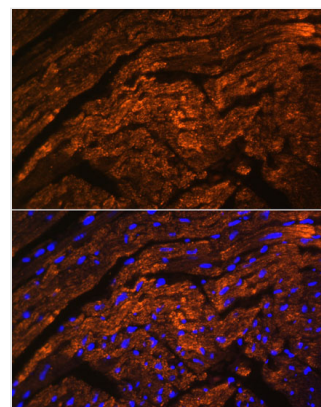
Host	Rabbit
Reactivity	Mouse, Rat
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.01% thiomersal, 50% glycerol, pH7.3.
Applicable Applications for anti-TTN antibody	ICC (Immunocytochemistry), IF (Immunofluorescence)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 5347-5604 of human TTN (NP_596870.2).
Cellular Location	condensed nuclear chromosome, cytosol, extracellular exosome, extracellular region, I band, M band, striated muscle thin filament, titin-telethonin complex, Z disc
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of mouse heart using TTN antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



IF (Immunofluorescence)

Immunofluorescence analysis of rat heart using TTN antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

ADDITIONAL INFORMATION

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-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.
Product Categories/Family for anti-TTN antibody	Epigenetics & Nuclear Signaling; Signal Transduction; Cell Biology & Developmental Biology; Apoptosis; Cytoskeleton; Microfilaments; Motor Proteins; Actins; Cardiovascular; Heart; Contractility; Hypertrophy; Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21328446
NCBI GeneID	3991
NCBI Accession #	NP_005348.2
NCBI GenBank Nucleotide #	NM_005357.2
UniProt Accession #	Q05469; Q3LRT2; Q6NSL7
Molecular Weight	116,598 Da
NCBI Official Full Name	hormone-sensitive lipase
NCBI Official Synonym Full Names	lipase, hormone-sensitive
NCBI Official Symbol	LIPE
NCBI Official Synonym Symbols	HSL; LHS
NCBI Protein Information	hormone-sensitive lipase; hormone-sensitive lipase testicular isoform
UniProt Protein Name	Hormone-sensitive lipase
UniProt Gene Name	LIPE
UniProt Synonym Gene Names	HSL
UniProt Entry Name	LIPS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-mouse-rat-antibody/ttn/282306>