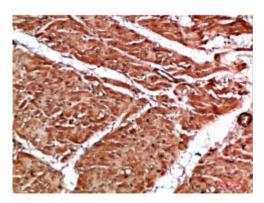


## **Anti-TTN antibody**





**Description** Rabbit polyclonal to TTN.

Model STJ98821

**Host** Rabbit

**Reactivity** Human, Mouse, Rat

**Applications** ELISA, IHC

**Immunogen** Synthetic peptide from human TTN protein.

**Immunogen Region** 161-210 aa

**Gene ID** <u>7273</u>

Gene Symbol TTN

**Dilution range** IHC-P 1:50-300ELISA 1:5000-20000

**Specificity** The antibody detects endogenous TTN.

**Tissue Specificity** Isoforms 3, 7 and 8 are expressed in cardiac muscle. Isoform 4 is expressed in

vertebrate skeletal muscle. Isoform 6 is expressed in skeletal muscle (at

protein level).

**Purification** The antibody was affinity-purified from rabbit serum by affinity-

chromatography using specific immunogen.

**Note** For Research Use Only (RUO).

Protein Name Titin Connectin Rhabdomyosarcoma antigen MU-RMS-40.14

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50%

Glycerol.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:12403OMIM:188840

Alternative Names Titin Connectin Rhabdomyosarcoma antigen MU-RMS-40.14

**Function** Key component in the assembly and functioning of vertebrate striated

muscles. By providing connections at the level of individual microfilaments, it

contributes to the fine balance of forces between the two halves of the sarcomere. The size and extensibility of the cross-links are the main

determinants of sarcomere extensibility properties of muscle. In non-muscle cells, seems to play a role in chromosome condensation and chromosome segregation during mitosis. Might link the lamina network to chromatin or

nuclear actin, or both during interphase.

Sequence and Domain Family ZIS1 and ZIS5 regions contain multiple SPXR consensus sites for ERK- and

CDK-like protein kinases as well as multiple SP motifs. ZIS1 could adopt a closed conformation which would block the TCAP-binding site.; The PEVK region may serve as an entropic spring of a chain of structural folds and may also be an interaction site to other myofilament proteins to form interfilament

connectivity in the sarcomere.

Cellular Localization Cytoplasm Nucleus

Post-translational

Modifications

Autophosphorylated.

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