10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TTN Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21985a

Specification

TTN Antibody (N-term) - Product Information

Application	**IHC-P,E**
Primary Accession	Q8WZ42
Other Accession	A2ASS6
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**3816030**

TTN Antibody (N-term) - Additional Information

Gene ID 7273

Other Names
Titin, 2.7.11.1, Connectin, Rhabdomyosarcoma antigen MU-RMS-40.14, TTN

Target/Specificity
This TTN antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 7169-7203 amino acids from the N-terminal region of human TTN.

Dilution
IHC-P~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TTN Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TTN Antibody (N-term) - Protein Information

Name TTN

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.

Cellular Location
Cytoplasm. Nucleus

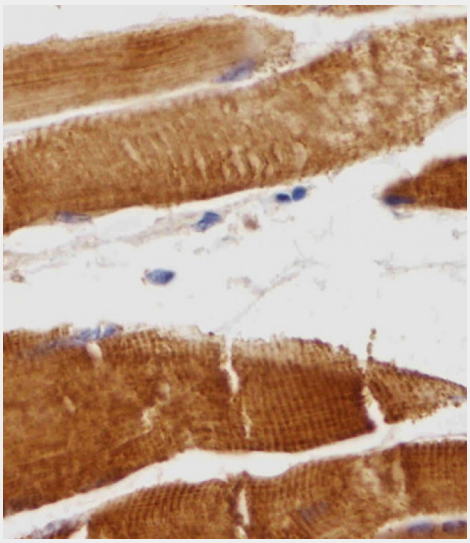
Tissue Location
Isoforms 3, 7 and 8 are expressed in cardiac muscle. Isoform 4 is expressed in vertebrate skeletal muscle. Isoform 6 is expressed in skeletal muscle (at protein level)

TTN Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

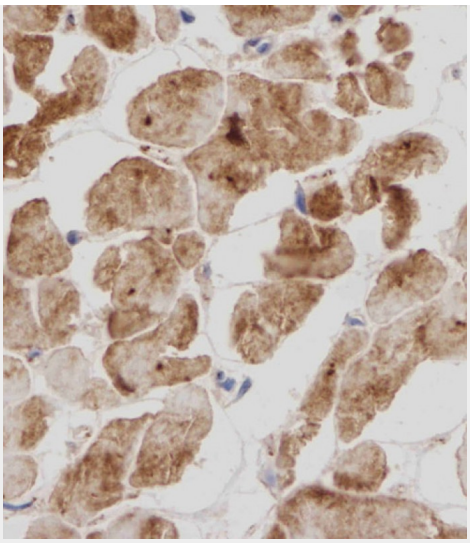
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TTN Antibody (N-term) - Images



Immunohistochemical analysis of TITIN in Human skeletal muscle tissue sections(IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

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Immunohistochemical analysis of TITIN in Human heart tissue sections(IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

TTN Antibody (N-term) - Background

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.

TTN Antibody (N-term) - References

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Bang M.-L.,et al.Circ. Res. 89:1065-1072(2001).
Hillier L.W.,et al.Nature 434:724-731(2005).
Gautel M.,et al.J. Cell Sci. 109:2747-2754(1996).