

Rabbit Anti-TNNT1 antibody

SL10616R

Product Name TNNT1

Chinese Name 骨骼肌慢肌肌钙蛋白 T 抗体

Alias Troponin T slow skeletal muscle; TNNT1; TNNT1_HUMAN; Troponin T, slow skeletal muscle; TnTs; Slow skeletal muscle troponin T; sTnT; ANM; MGC104241; Slow skeletal muscle troponin T; sTnT.

Immunogen Species Rabbit

Clonality Polyclonal

React Species (predicted: Human,)

Applications IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 33kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human TNNT1: 151-250/278

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

Product Detail This gene encodes a protein that is a subunit of troponin, which is a regulatory complex located on the thin filament of the sarcomere. This complex regulates striated muscle contraction in

response to fluctuations in intracellular calcium concentration. This complex is composed of three subunits: troponin C, which binds calcium, troponin T, which binds tropomyosin, and troponin I, which is an inhibitory subunit. This protein is the slow skeletal troponin T subunit. Mutations in this gene cause nemaline myopathy type 5, also known as Amish nemaline myopathy, a neuromuscular disorder characterized by muscle weakness and rod-shaped, or nemaline, inclusions in skeletal muscle fibers which affects infants, resulting in death due to respiratory insufficiency, usually in the second year. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

DISEASE:

Nemaline myopathy 5 (NEM5) [MIM:605355]: A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-like or rod-shaped structures in muscle fibers on histologic examination. Nemaline myopathy type 5 is a severe and progressive form common among Old Order Amish. Affected infants display tremors with hypotonia and mild contractures of the shoulders and hips. Proximal contractures progressively weaken and a pectus carinatum deformity develops before children die of respiratory insufficiency, usually in the second year. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the troponin T family.

SWISS:

P13805

Gene ID:

7138

Database links:

[Entrez Gene: 7138](#) Human

[Omic: 191041](#) Human

[SwissProt: P13805](#) Human