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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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TNNT1:151-250/278
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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: 7138Human Omim: 191041Human SwissProt: P13805Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.