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Troponin T-Slow Skeletal Rabbit pAb

Catalog # AP97410

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P13805
Other Accession	P13805
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32948
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Troponin T-Slow Skeletal
Epitope Specificity	61-160/278
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the troponin T family.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	7138
Other Names	ANM; NEM5; STNT; TNT; TNTS; TNNT1_HUMAN; TNNT1; Slow skeletal muscle troponin T (sTnT); troponin T1, slow skeletal type; troponin T type 1 (skeletal, slow); slow skeletal muscle troponin T; troponin T1, skeletal, slow; nemaline myopathy type 5
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	TNNT1
Synonyms	TNT
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.

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