

For Research Use Only

TNNT3 Polyclonal antibody, PBS Only

Catalog Number:19729-1-PBS



Basic Information

Catalog Number: 19729-1-PBS	GenBank Accession Number: NM_001042780	Purification Method: Antigen Affinity purified
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7140	
Source: Rabbit	UNIPROT ID: P45378	
Isotype: IgG	Full Name: troponin T type 3 (skeletal, fast)	
	Calculated MW: 32 kDa	
	Observed MW: 35-40 kDa	

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

The TNNT3 gene encodes the fast skeletal muscle isoform of troponin T, a key protein subunit of the troponin complex responsible for regulating skeletal muscle contraction in a calcium-dependent manner. This gene produces a protein that anchors the troponin complex to tropomyosin on the thin filaments of sarcomeres, playing a crucial role in the conformational changes that permit actin-myosin cross-bridge formation during muscle contraction. Tissue-specific expression is largely restricted to fast-twitch skeletal muscles, where alternative splicing generates multiple developmentally regulated isoforms. Clinically, dominant pathogenic mutations in TNNT3 are associated with distal arthrogryposis multiplex congenita type 2B (DA2B), also known as Sheldon-Hall syndrome, characterized by congenital joint contractures, while rare recessive variants have been linked to congenital myopathies featuring nemaline rods and fiber atrophy.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

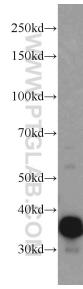
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

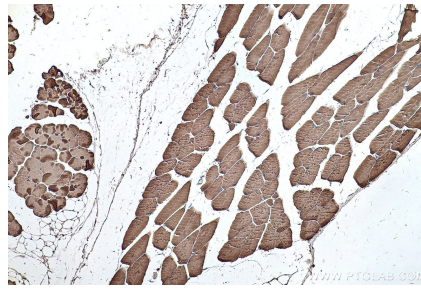
E: proteintech@ptglab.com
W: ptglab.com

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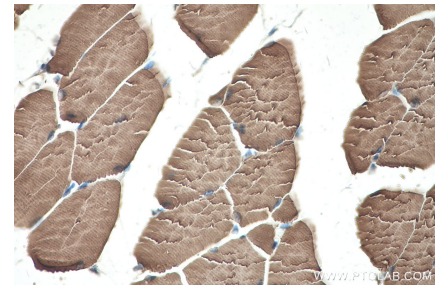
Selected Validation Data



rat skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 19729-1-AP (TNNT3 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 19729-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 19729-1-AP (TNNT3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 19729-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 19729-1-AP (TNNT3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 19729-1-PBS in a different storage buffer formulation.