

Datasheet for ABIN2777153

anti-TNNT1 antibody (Middle Region)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µL
Target:	TNNT1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNNT1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human TNNT1
Sequence:	WIHQLESEKF DLMAKLKQK YEINVLYNRI SHAQKFRKGA GKGRVGGRWK
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rat: 100%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against TNNT1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	TNNT1
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Target Details

Alternative Name:	TNNT1 (TNNT1 Products)
Background:	<p>TNNT1 is 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. 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.</p> <p>Alias Symbols: ANM, MGC104241, TNT, STNT, TENTS</p> <p>Protein Interaction Partner: CCDC136, TFIP11, LDOC1, MORF4L1, TBPL1, TPM3, TPM1, TNNT1, NFE2L2, KRT40, UBC, PI4KA, SERPINA4, OSM, MARS, HSP90AB1, FYN, EEF1G, DDX5, CHD3, BLOC1S2, C2orf44, ZNF768, ZNF250, ZC3H15, NAGK, HMP19, TRA2A, TMEM98, ARMC8, OSBP2, ZKSCAN5, LARP1, NACAD, SNW1, S</p> <p>Protein Size: 278</p>
Molecular Weight:	33 kDa
Gene ID:	7138
NCBI Accession:	NM_003283 , NP_003274
UniProt:	P13805

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
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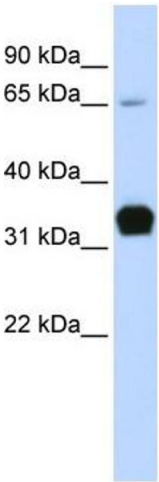
Application Details

Comment:	Antigen size: 278 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-TNNT1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Muscle