

Datasheet for ABIN6149358
anti-TNNI3 antibody (AA 1-210)



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2 Images

Overview

Quantity:	100 µL
Target:	TNNI3
Binding Specificity:	AA 1-210
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNNI3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-210 of human TNNI3 (NP_000354.4).
Sequence:	MADGSSDAAR EPRPAPAPIR RRSSNYRAYA TEPHAKKSK ISASRKLQLK TLLLQIAKQE LEREAERRG EKGRALSTRC QPLELAGLGF AELQDLRQL HARVDKVDDEE RYDIEAKVTK NITEIADLTQ KIFDLRGKFK RPTLRRVRIS ADAMMQALLG ARAKESLDLR AHLKQVKKED TEKENREVGD WRKNIDALSG MEGRKKKFES
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

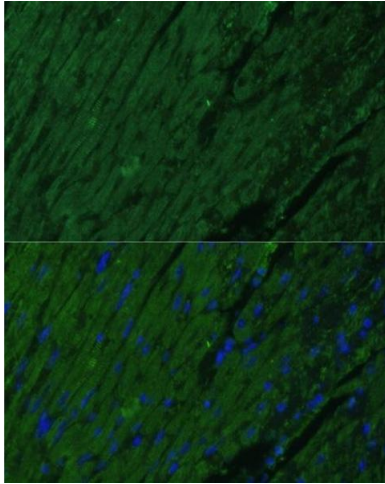
Target:	TNNI3
Alternative Name:	TNNI3 (TNNI3 Products)
Background:	<p>Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit, blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).,TNNI3,CMD1FF,CMD2A,CMH7,RCM1,TNNC1,cTnI,troponin I3,Signal Transduction,Cell Biology & Developmental Biology,Cytoskeleton,Microfilaments,Stem Cells,Cardiovascular,Cardiovascular Markers,Cardiomyocytes,Angiogenesis,Heart,Contractility,TNNI3</p>
Molecular Weight:	24 kDa
Gene ID:	7137
UniProt:	P19429

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

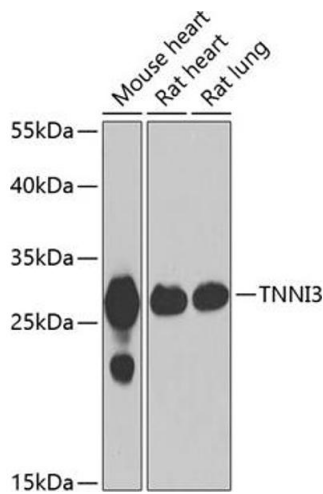
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Immunofluorescence

Image 1. Immunofluorescence analysis of mouse heart cells using TNNI3 antibody (ABIN6132730, ABIN6149358, ABIN6149360 and ABIN6222761) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using TNNI3 antibody (ABIN6132730, ABIN6149358, ABIN6149360 and ABIN6222761) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.