

Rabbit TNNI3 Polyclonal Antibody | anti-TNNI3 antibody

Phospho-TNNI3 (Thr142) Antibody

CATALOG # AAA321557	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot
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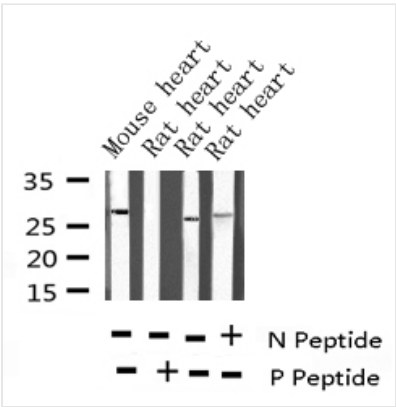
PRODUCT SYNONYMS

TNNI3; Polyclonal Antibody; Phospho-TNNI3 (Thr142) Antibody; cardiac muscle; Cardiac troponin I; cardiomyopathy; dilated 2A (autosomal recessive); Cardiomyopathy; familial hypertrophic; 7; included; CMD1FF; CMD2A; CMH7; cTnI; Familial hypertrophic cardiomyopathy 7; MGC116817; RCM1; Tn1; Tni; TNN I3; TNNC 1; TNNC1; TNNI3_HUMAN; Troponin I; Troponin I cardiac; Troponin I cardiac muscle; Troponin I cardiac muscle isoform; Troponin I type 3 cardiac; troponin I; cardiac 3; TroponinI; Ttroponin I type 3 (cardiac); anti-TNNI3 antibody

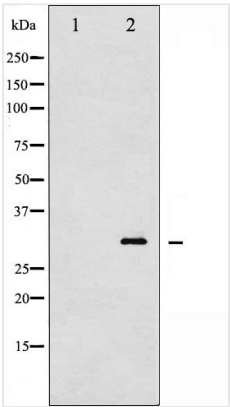
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-TNNI3 (Thr142) antibody detects endogenous levels of TNNI3 only when phosphorylated at Threonine 142
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	210
Applicable Applications for anti-TNNI3 antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human TNNI3 around the phosphorylation site of Threonine 142
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (93%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Thr142
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Phospho-TNNI3 (Thr142) expression in various lysates



WB (Western Blot)
Western blot analysis of TNNI3 phosphorylation expression in Mouse heart tissue lysates. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TNNI3 antibody	Description: Troponin I (TnI) is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle; see also TNNI1 (MIM 191042). The others are troponin T (TnT; see MIM 191041) and troponin C (TnC; see MIM 191040). Function: Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Subunit Structure: Binds to actin and tropomyosin. Interacts with TRIM63. Interacts with STK4/MST1. Post-translational Modifications: Phosphorylated at Ser-42 and Ser-44 by PRKCE; phosphorylation increases myocardium contractile dysfunction (By similarity). Phosphorylated at Ser-23 and Ser-24 by PRKD1; phosphorylation reduces myofilament calcium sensitivity. Phosphorylated preferentially at Thr-31. Phosphorylation by STK4/MST1 alters its binding affinity to TNNC1 (cardiac Tn-C) and TNNT2 (cardiac Tn-T). Similarity: Belongs to the troponin I family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	151101270
NCBI GeneID	7137
NCBI Accession #	NP_000354.4
NCBI GenBank Nucleotide #	NM_000363.4
UniProt Accession #	P19429
Molecular Weight	Observed: 28 kDa Predicted: 25 kDa
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I3, cardiac type
NCBI Official Symbol	TNNI3
NCBI Official Synonym Symbols	CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF
NCBI Protein Information	troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	TNNI3
UniProt Synonym Gene Names	TNNC1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tnni3-antibody-western-blot-elisa/321557>