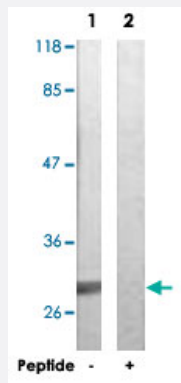


TNNI3 polyclonal antibody

Catalog # PAB18306 Size 100 ug

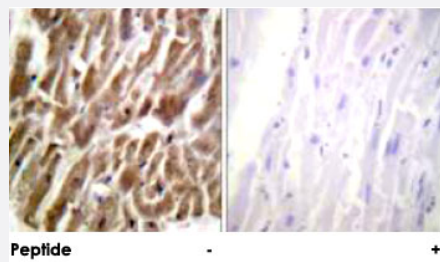
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from Jurkat cells, using TNNI3 polyclonal antibody (Cat # PAB18306).

Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human heart tissue using TNNI3 polyclonal antibody (Cat # PAB18306).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TNNI3.
Immunogen	A synthetic peptide corresponding to residues surrounding S43 of human TNNI3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to TNNI3.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from Jurkat cells, using TNNI3 polyclonal antibody (Cat # PAB18306).
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- Enzyme-linked Immunoabsorbent Assay

Gene Info — TNNI3

Entrez GeneID	7137
Protein Accession#	P19429
Gene Name	TNNI3
Gene Alias	CMD2A, CMH7, MGC116817, RCM1, TNNC1, cTnI
Gene Description	troponin I type 3 (cardiac)
Omim ID	115210 191044
Gene Ontology	Hyperlink

Gene Summary

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). [provided by RefSeq]

Other Designations

familial hypertrophic cardiomyopathy 7|troponin I, cardiac

Publication Reference

- [Does coronary vasodilation after adenosine override endothelin-1-induced coronary vasoconstriction?](#)

Loghini C, Sdringola S, Gould KL.

American Journal of Physiology. Heart and Circulatory Physiology 2007 Jan; 292(1):H496.

- [Coupled expression of troponin T and troponin I isoforms in single skeletal muscle fibers correlates with contractility.](#)

Brotto MA, Biesiadecki BJ, Brotto LS, Nosek TM, Jin JP.

American Journal of Physiology. Cell Physiology 2006 Feb; 290(2):C567.

Application: WB-Ti, Rat, Rat muscle tissues

- [Expression of slow skeletal troponin I in hearts of phospholamban knockout mice alters the relaxant effect of beta-adrenergic stimulation.](#)

Wolska BM, Arteaga GM, Pena JR, Nowak G, Phillips RM, Sahai S, de Tombe PP, Martin AF, Kranias EG, Solaro RJ.

Circulation Research 2002 May; 90(8):882.

Pathway

- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Alzheimer disease](#)
- [Cardiomegaly](#)

- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Death](#)
- [Diabetes Complications](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hypertrophy](#)
- [Lipid Metabolism](#)
- [Metabolic Syndrome X](#)
- [Mitochondrial Myopathies](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Tachycardia](#)