Datasheet for ABIN6719304

anti-Cardiac Troponin T2 antibody (AA 88-298)

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Overview

Quantity:	100 µg
Target:	Cardiac Troponin T2 (cTnT)
Binding Specificity:	AA 88-298
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cardiac Troponin T2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-Cardiac Troponin T/TNNT2 Antibody Picoband®
Immunogen:	E. coli-derived human Cardiac Troponin T recombinant protein (Position: K88-K298).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Cardiac Troponin T/TNNT2 Antibody Picoband® (ABIN6719304). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Cardiac Troponin T2 (cTnT)
Alternative Name:	TNNT2 (cTnT Products)
Background:	Synonyms: Troponin T, cardiac muscle, TnTc, Cardiac muscle troponin T, cTnT, TNNT2 Tissue Specificity: Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 are expressed in fetal heart. Isoform 7 is also expressed in failing adult heart. Background: Cardiac muscle troponin T (cTnT), is a protein which in humans is encoded by the TNNT2 gene. It is mapped to 1q32.1. The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined.
Molecular Weight:	43 kDa
Gene ID:	7139
UniProt:	P45379

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL ELISA, 0.1-0.5 µg/mL 1. Aviles, R. J., Askari, A. T., Lindahl, B., Wallentin, L., Jia, G., Ohman, E. M., Mahaffey, K. W., Newby, L. K., Califf, R. M., Simoons, M. L., Topol, E. J., Lauer, M. S. Troponin T levels in patients with acute coronary syndromes, with or without renal dysfunction. New Eng. J. Med. 346: 2047-2052, 2002. 2. Charlet-B, N., Logan, P., Singh, G., Cooper, T. A. Dynamic antagonism between ETR-3 and PTB regulates cell type-specific alternative splicing. Molec. Cell 9: 649-658, 2002. 3. Du, C.-K., Morimoto, S., Nishii, K., Minakami, R., Ohta, M., Tadano, N., Lu, Q.-W., Wang, Y.-Y., Zhan, D.-Y., Mochizuki, M., Kita, S., Miwa, Y., Takahashi-Yanaga, F., Iwamoto, T., Ohtsuki, I., Sasaguri, T. Knock-in mouse model of dilated cardiomyopathy caused by troponin mutation.Circ. Res. 101: 185-194, 2007.
Comment:	Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.05 mg NaN_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:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.