abcam

Product datasheet

Anti-Cardiac Troponin I antibody [19C7] ab92408

1 Abreviews 6 References

Overview

Product name	Anti-Cardiac Troponin I antibody [19C7]
Description	Mouse monoclonal [19C7] to Cardiac Troponin I
Host species	Mouse
Specificity	No cross-reaction with skeletal muscle Troponin I
Tested applications	**Suitable for:** WB, Sandwich ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chicken, Xenopus laevis
Immunogen	Synthetic peptide: lSASRKLQL , corresponding to amino acids 41-49 of Human Cardiac Troponin I Run BLAST with Run BLAST with
Epitope	Recognises an epitope included within aa 41-49
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	19C7

Myeloma	Sp2/0
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92408 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.
Sandwich ELISA		Use at an assay dependent concentration. Can be paired for Sandwich ELISA with **HRP Mouse monoclonal [16A11] to Cardiac Troponin I (ab24460)**. Recommended pairs for quantitative sandwich immunoassay (capture-detection):ab92408 - **ab24460**.

Target

Function Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

Involvement in disease Defects in TNNI3 are the cause of cardiomyopathy familial hypertrophic type 7 (CMH7) [MIM:613690]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.
Defects in TNNI3 are the cause of cardiomyopathy familial restrictive type 1 (RCM1) [MIM:115210]. RCM1 is an heart muscle disorder characterized by impaired filling of the ventricles with reduced diastolic volume, in the presence of normal or near normal wall thickness and systolic function.
Defects in TNNI3 are the cause of cardiomyopathy dilated type 2A (CMD2A) [MIM:611880]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.
Defects in TNNI3 are the cause of cardiomyopathy dilated type 1FF (CMD1FF) [MIM:613286]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

Sequence similarities Belongs to the troponin I family.

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