abcam

Product datasheet

Anti-Cardiac Troponin I antibody [M155] ab10237

1 Image

Overview

Product name	Anti-Cardiac Troponin I antibody [M155]
Description	Mouse monoclonal [M155] to Cardiac Troponin I
Host species	Mouse
Specificity	This antibody is reacting with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components (In the presence of 5 mM EDTA). It is not affected by heparin, phosphorylation, oxidation and troponin complex formation. This antibody does not cross-react with skeletal muscle troponin I.
Tested applications	**Suitable for:** ELISA
Species reactivity	**Reacts with:** Mouse, Rat, Dog, Human
Immunogen	Free human cardiac troponin and/or native troponin complex.
Epitope	27-43 aa
General notes	Concentration varies from lot to lot and can be provided on request. 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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Purification notes	Purity tested by electrophoresis.
Clonality	Monoclonal

Clone number	M155
Myeloma	Sp2/0
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab10237 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
ELISA		Use at an assay dependent concentration.

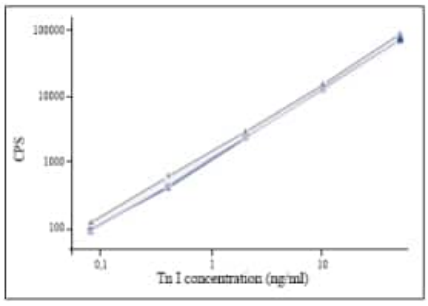
Target

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.

Images



ELISA - Anti-Cardiac Troponin I antibody [M155] (ab10237)

cTnI calibration curve. Monoclonal antibodies used for capture were biotinylated ab10237 (M155) at 200 ng/well. For detection Eu-labeled **ab8289** (19C7) was used at 200 ng/well. The Antigens used included Human (grey triangle), Rat (cream circle), Canine (blue circle), and Mouse (blue square). This was then incubated for 20 min at 20°C.

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