abcam

Product datasheet

Anti-Cardiac Troponin I antibody [M18] ab10236

製品の概要

製品名	Anti-Cardiac Troponin I antibody [M18]
製品の詳細	Mouse monoclonal [M18] to Cardiac Troponin I
由来種	Mouse
特異性	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.
アプリケーション	**適用あり:** ELISA, WB
種交差性	**交差が予測される動物種:** Human
免疫原	Full length native protein (purified) corresponding to Cardiac Troponin I. Free human cardiac troponin and/or native troponin complex.
エピトープ	13-29 aa
特記事項	Concentration varies from lot to lot and can be provided on request. Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.1% Sodium Azide Constituents: PBS, pH 7.4
精製度	Protein A purified
特記事項（精製）	Purity tested by electrophoresis.
ポリ/モノ	モノクローナル
クローン名	M18
ミエローマ	Sp2/0
アイソタイプ	IgG1

アプリケーション

Our Abpromise guarantee covers the use of **ab10236** in the following tested applications.

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

アプリケーション	Abreviews	特記事項
ELISA		Use at an assay dependent concentration.
AP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 24 kDa.

ターゲット情報

機能

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

関連疾患

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.

配列類似性

Belongs to the troponin I family.

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.co.jp/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors