

Product datasheet

Anti-Cardiac Troponin I antibody [16A11] (HRP)  
ab24460

Overview

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<b>Product name</b>	Anti-Cardiac Troponin I antibody [16A11] (HRP)
<b>Description</b>	Mouse monoclonal [16A11] to Cardiac Troponin I (HRP)
<b>Host species</b>	Mouse
<b>Conjugation</b>	HRP
<b>Specificity</b>	Reacts with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components (in the presence of 5 mM EDTA). Not affected by heparin, phosphorylation, oxidation and troponin complex formation. Does not cross-react with skeletal muscle troponin I.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, Other, Sandwich ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Rabbit, Goat, Cow, Cat, Dog, Human, Pig <b>Does not react with:</b> Fish
<b>Immunogen</b>	Full length protein (Human Cardiac Troponin I)
<b>Epitope</b>	87-91aa

Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.05% Proclin Constituents: PBS, pH 7.4
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	16A11
<b>Myeloma</b>	Sp2/0
<b>Isotype</b>	IgG1

Applications

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Our [Abpromise guarantee](#) covers the use of **ab24460** 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.
AP		Use at an assay dependent concentration.
Other		Use at an assay dependent concentration.
Sandwich ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 24 kDa.

## 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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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