

## Product datasheet

# Anti-Cardiac Troponin C antibody ab30807

★★★★☆ 1 Abreviews 3 References 1 Image

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Cardiac Troponin C antibody  |
| <b>Description</b>         | Goat polyclonal to Cardiac Troponin C   |
| <b>Specificity</b>         | This antibody recognizes cardiac Troponin C. It shows no reactivity with Troponin T.  |
| <b>Tested applications</b> | <b>Suitable for:</b> ELISA, IHC-Fr  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Mouse, Human<br><b>Predicted to work with:</b> Rat, Rabbit, Chicken, Cow, Pig, Xenopus laevis, Zebrafish  |
| <b>Immunogen</b>           | Synthetic peptide:<br>FVLG AEDGCISTKE<br>, corresponding to amino acids 27-40 of Human cardiac Troponin C.<br><br><a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a> |

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.                     |
| <b>Storage buffer</b>       | Preservative: 0.1% Sodium Azide.<br>Constituents: PBS, pH 7.2.   |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Purification notes</b>   | This antibody was purified by affinity chromatography. No contaminants detected. Single band by SDS PAGE, IEP, and/or RID. |
| <b>Clonality</b>            | Polyclonal   |
| <b>Isotype</b>              | IgG  |

### Applications

Our [Abpromise guarantee](#) covers the use of **ab30807** 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. |
| IHC-Fr      | ★★★★☆     | Use at an assay dependent concentration. |

## Target

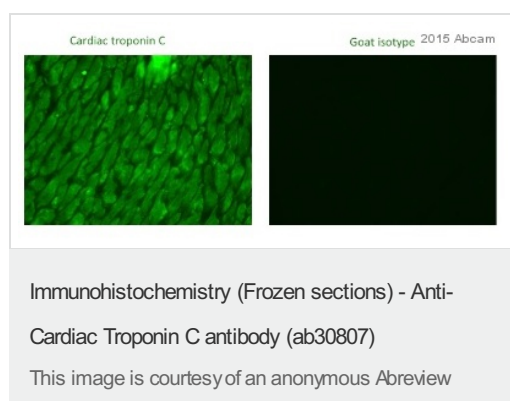
**Function** Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments.

**Involvement in disease** Defects in TNNC1 are the cause of cardiomyopathy dilated type 1Z (CMD1Z) [MIM:611879]. 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 TNNC1 are the cause of familial hypertrophic cardiomyopathy type 13 (CMH13) [MIM:613243]. 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.

**Sequence similarities** Belongs to the troponin C family.  
Contains 4 EF-hand domains.

## Images



ab30807 staining Cardiac Troponin C in mouse heart tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with acetone, permeabilized with 0.3% Triton in PBS and blocked with 1% BSA + 5% donkey serum for 45 minutes at room temperature. Samples were incubated with primary antibody (1/500 in PBS + 0.3% Triton + 0.1% BSA + 5% donkey serum) for 16 hours at 4°C. An Alexa Fluor® 594-conjugated donkey anti-goat IgG polyclonal (1/300) was used as the secondary antibody.

Right - goat isotype control.

---

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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 <http://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

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