

## Product datasheet

### Anti-Telethonin antibody [EPR8375] $\alpha$ b133646

Recombinant RabMAb

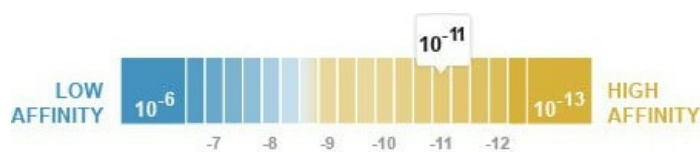
★★★★★ [2 Abreviews](#) [3 References](#) [5 Images](#)

#### Overview

Product name	Anti-Telethonin antibody [EPR8375]
Description	Rabbit monoclonal [EPR8375] to Telethonin
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF or IHC-P
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal muscle and fetal heart lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant ( $K_D$ )	$K_D = 1.30 \times 10^{-11}$ M



[Learn more about  \$K\_D\$](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture
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	supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8375
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab133646 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
<b>WB</b>	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 19 kDa.

**Application notes** Is unsuitable for ICC/IF or IHC-P.

## Target

**Function** Muscle assembly regulating factor. Mediates the antiparallel assembly of titin (TTN) molecules at the sarcomeric Z-disk.

**Tissue specificity** Heart and skeletal muscle.

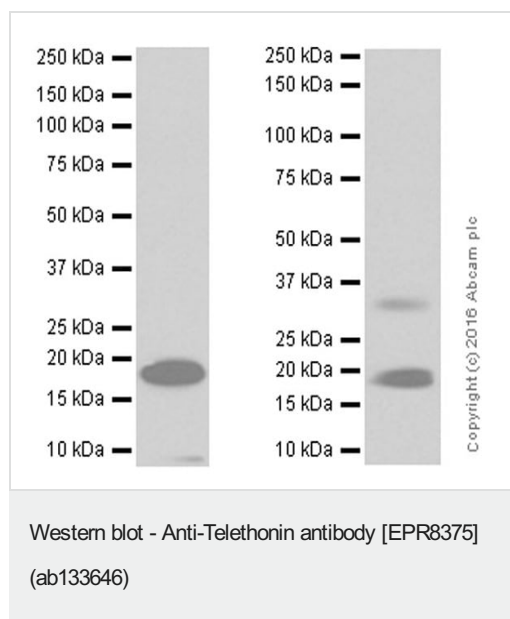
**Involvement in disease** Defects in TCAP are a cause of cardiomyopathy familial hypertrophic (CMH) [MIM:192600]; also designated FHC or HCM. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the 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 TCAP are a cause of limb-girdle muscular dystrophy type 2G (LGMD2G) [MIM:601954]. LGMD2G is an autosomal recessive degenerative myopathy characterized by proximal and distal muscle weakness and atrophy in the limbs, dystrophic changes on muscle biopsy, and absence of telethonin. Cardiac muscle is involved in a subset of patients.

Defects in TCAP are the cause of cardiomyopathy dilated type 1N (CMD1N) [MIM:607487]. 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.

**Cellular localization** Cytoplasm > myofibril > sarcomere.

## Images



**Lane 1 :** Anti-Telethonin antibody [EPR8375] (ab133646) at 1/500 dilution

**Lane 2 :** Anti-Telethonin antibody [EPR8375] (ab133646) at 1/5000 dilution

**Lane 1 :** Rat Muscle tissue lysate

**Lane 2 :** Rat Heart tissue lysate

Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

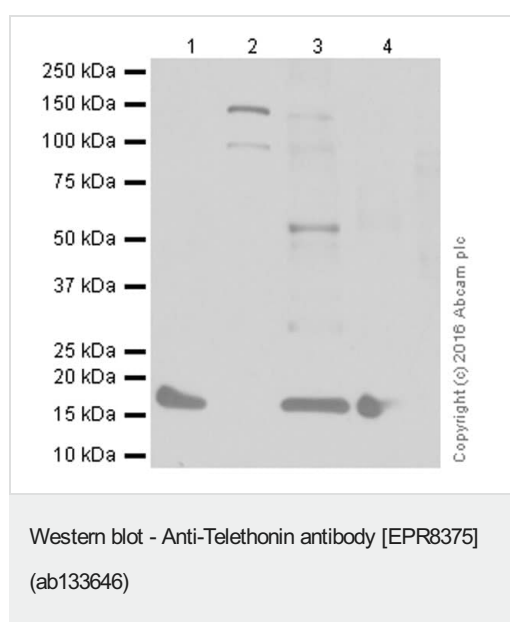
**Predicted band size:** 19 kDa

**Observed band size:** 19 kDa

**Exposure time:** 1 minute

Blocking buffer 5% NFDM/TBST

Diluting buffer 5% NFDM/TBST



**All lanes :** Anti-Telethonin antibody [EPR8375] (ab133646) at 1/5000 dilution

**Lane 1 :** Human skeletal muscle tissue lysate

**Lane 2 :** C2C12 cell lysate

**Lane 3 :** Mouse heart tissue lysate

**Lane 4 :** Mouse muscle tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

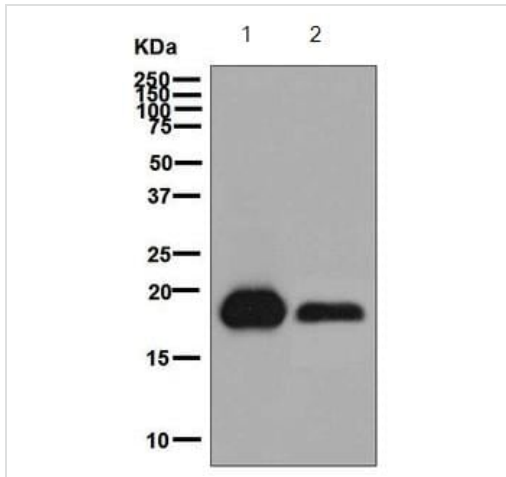
**Predicted band size:** 19 kDa

**Observed band size:** 19 kDa

**Exposure time:** 1 minute

Blocking buffer 5% NFDM/TBST

Diluting buffer 5% NFDM/TBST



Western blot - Anti-Telethonin antibody [EPR8375]  
(ab133646)

**All lanes :** Anti-Telethonin antibody [EPR8375] (ab133646) at  
1/1000 dilution

**Lane 1 :** Fetal muscle lysate

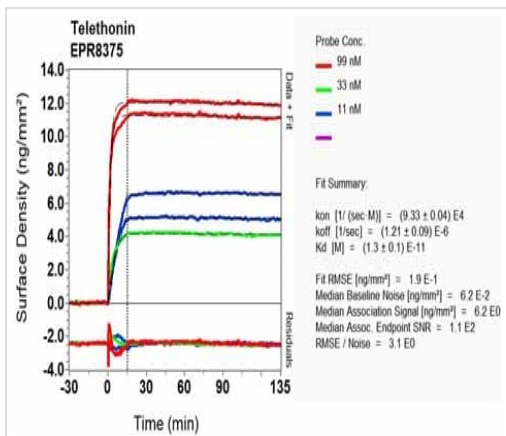
**Lane 2 :** Fetal heart lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 19 kDa



O1-RD Scanning - Anti-Telethonin antibody  
[EPR8375] (ab133646)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Telethonin antibody [EPR8375] (ab133646)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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