

# Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] ab68167

**重组 RabMAB**

★★★★★ **9 Abreviews** **50 References** **9 图像**

### 概述

产品名称	Anti-Sarcomeric Alpha Actinin抗体[EP2529Y]
描述	兔单克隆抗体[EP2529Y] to Sarcomeric Alpha Actinin
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IP, IHC-P <b>不适用于:</b> Flow Cyt or ICC/IF
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human Sarcomeric Alpha Actinin aa 1-100 (N terminal). The exact sequence is proprietary.
阳性对照	WB: Human skeletal muscle and fetal heart, mouse, rat and human heart and rat brain tissue lysates IHC-P: Human and mouse cardiac muscle tissues.
常规说明	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> .

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EP2529Y

同种型

IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab68167于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 103 kDa (predicted molecular weight: 103 kDa).
IP		1/20 - 1/40.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .

## 应用说明

Is unsuitable for Flow Cyt or ICC/IF.

## 靶标

### 功能

F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.

### 组织特异性

Expressed in both skeletal and cardiac muscle.

### 疾病相关

Defects in ACTN2 are the cause of cardiomyopathy dilated type 1AA (CMD1AA) [MIM:612158]. 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.

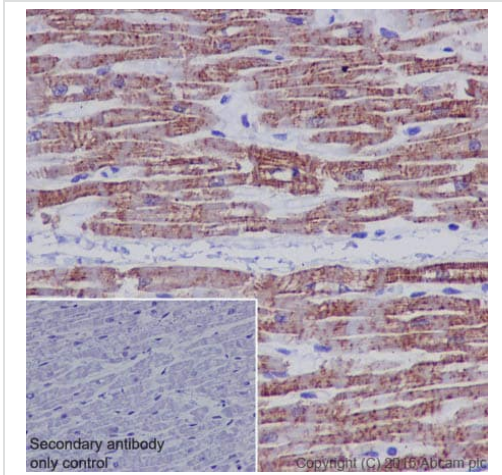
### 序列相似性

Belongs to the alpha-actinin family.  
Contains 1 actin-binding domain.  
Contains 2 CH (calponin-homology) domains.  
Contains 2 EF-hand domains.  
Contains 4 spectrin repeats.

### 细胞定位

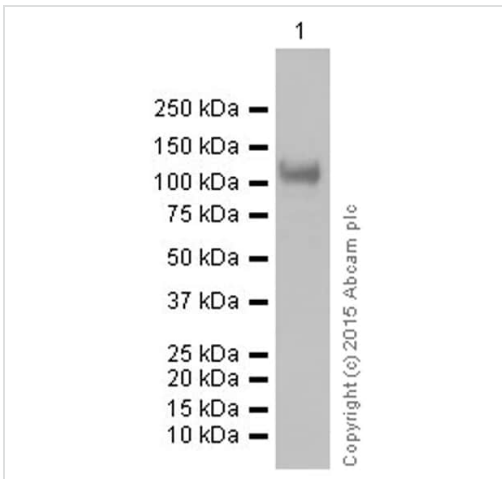
Cytoplasm > myofibril > sarcomere > Z line. Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle.

## 图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cardiac muscle tissue labelling Sarcomeric Alpha Actinin with purified ab68167 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167) at 1/20000 dilution (purified) + Human fetal heart tissue lysate at 10 µg

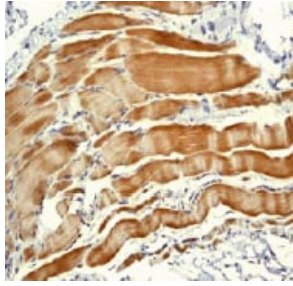
**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 103 kDa

**Observed band size:** 103 kDa

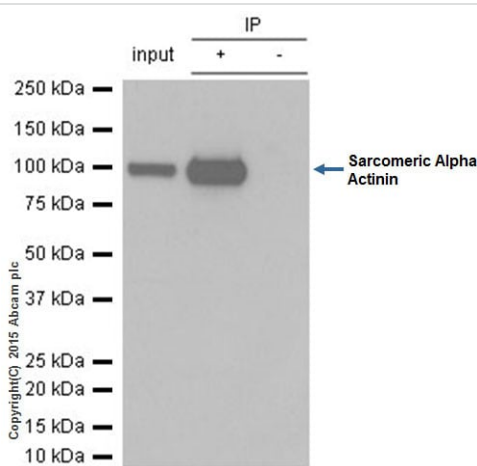
Blocking and dilution buffer: 5% NFDM /TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human muscle tissue labelling Sarcomeric Alpha Actin with unpurified ab68167 at a dilution of 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

ab68167 (purified) at 1/20 immunoprecipitating Sarcomeric Alpha Actinin in HepG2 whole cell lysate.

Lane 1 (input): HepG2 whole cell lysate (10µg)

Lane 2 (+): ab68167 + HepG2 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab68167 in HepG2 whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution.

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.

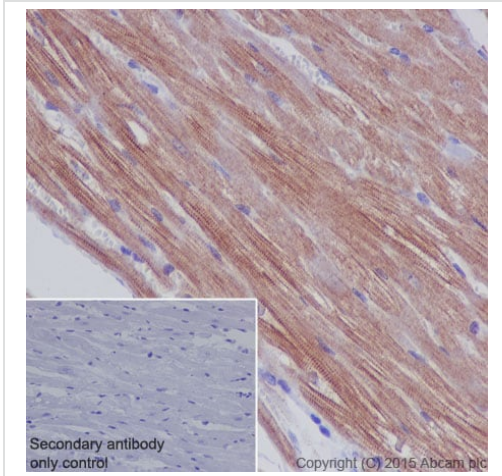
**All lanes :**

**Lane 1 :** HepG2 whole cell lysate at 10 µg

**Lane 2 :** ab68167 + HepG2 whole cell lysate at 10 µg

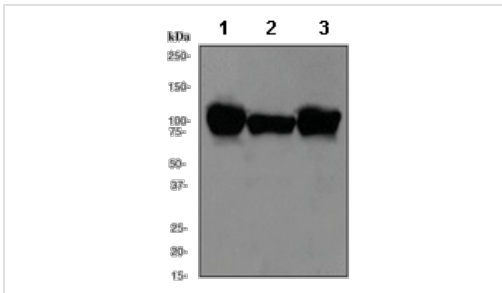
**Lane 3 :** Rabbit monoclonal IgG (**ab172730**) instead of ab68167 in HepG2 whole cell lysate

**Observed band size:** 103 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cardiac muscle tissue labelling Sarcomeric Alpha Actinin with purified ab68167 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

**All lanes** : Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167) at 1/20000 dilution (unpurified)

**Lane 1** : Human skeletal muscle lysate

**Lane 2** : Rat heart lysate

**Lane 3** : Human heart lysate

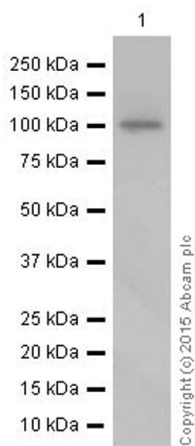
Lysates/proteins at 10 µg per lane.

#### Secondary

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

**Predicted band size:** 103 kDa

**Observed band size:** 103 kDa



Western blot - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167) at 1/20000 dilution (purified) + Mouse heart tissue lysate at 10 µg

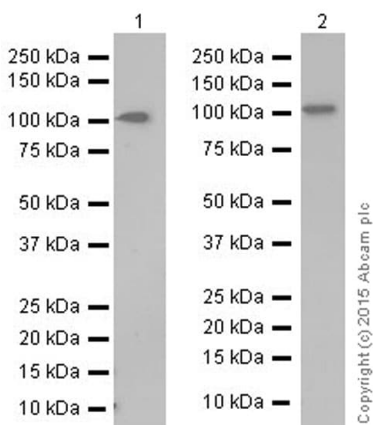
**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 103 kDa

**Observed band size:** 103 kDa

Blocking and dilution buffer: 5% NFDM /TBST.



Western blot - Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167)

**All lanes :** Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] (ab68167) at 1/10000 dilution (purified)

**Lane 1 :** Mouse brain tissue lysate

**Lane 2 :** Rat brain tissue lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 103 kDa

**Observed band size:** 103 kDa

Blocking and dilution buffer: 5% NFDM /TBST.

### 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-Sarcomeric Alpha Actinin antibody [EP2529Y]  
(ab68167)

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

### 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 <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

---

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