

### Anti-Sarcomeric Alpha Actinin antibody [EP2529Y] ab68167

リコンビナント **RabMAb**

★★★★★ **9 Abreviews** **50 References** 画像数 9

#### 製品の概要

製品名	Anti-Sarcomeric Alpha Actinin antibody [EP2529Y]
製品の詳細	Rabbit monoclonal [EP2529Y] to Sarcomeric Alpha Actinin
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IP, IHC-P <b>適用なし:</b> Flow Cyt or ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human Sarcomeric Alpha Actinin aa 1-100 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	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.
特記事項	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> .

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP2529Y

アイソタイプ

lgG

アプリケーション

The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab68167の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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 <u>IHC antigen retrieval protocols</u> .

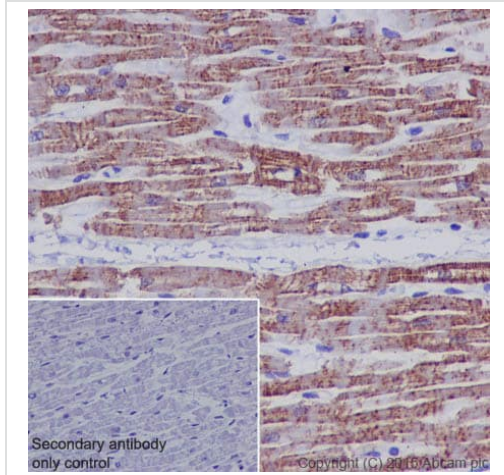
追加情報

Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

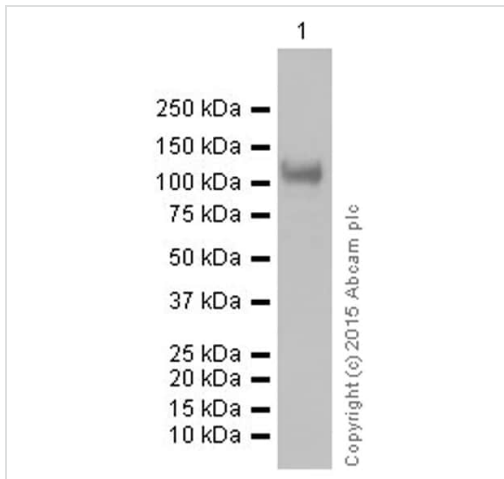
機能	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.
組織特異性	Expressed in both skeletal and cardiac muscle.
関連疾患	Defects in ACTN2 are the cause of cardiomyopathy dilated type 1AA (CMD1AA) [MIM:612158]. Dilated cardiomyopathy 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.
配列類似性	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.
細胞内局在	Cytoplasm > myofibril > sarcomere > Z line. Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle.

画像



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

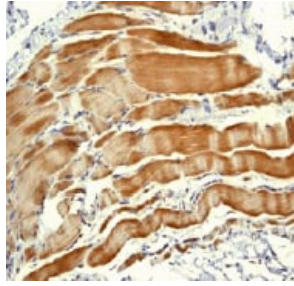
#### Secondary

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

**Predicted band size:** 103 kDa

**Observed band size:** 103 kDa

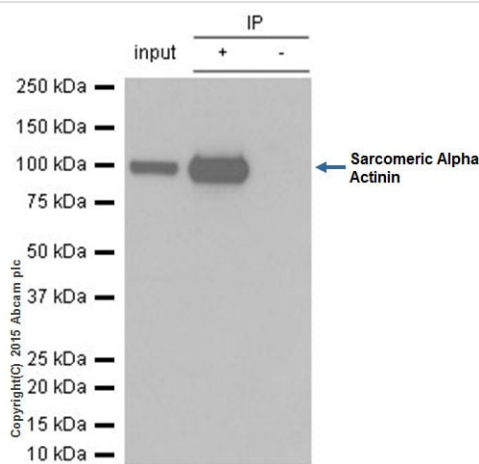
Blocking and dilution buffer: 5% NFDM /TBST.



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.

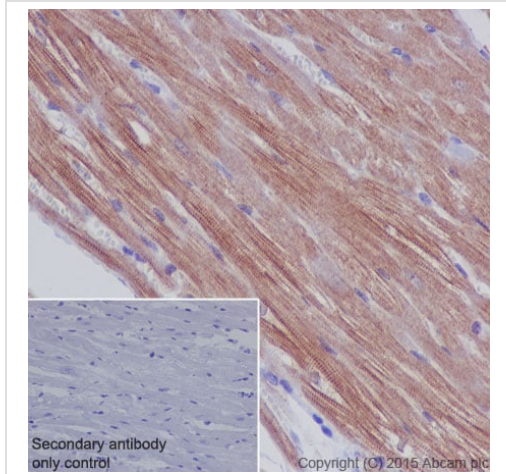
#### All lanes :

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

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

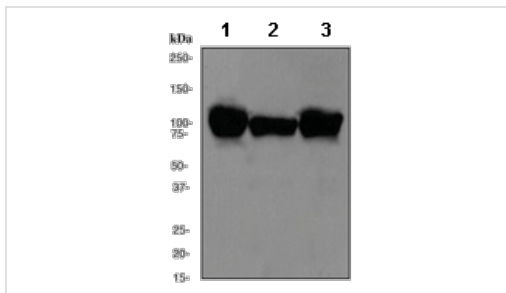
**Lane 3 :** Rabbit monoclonal IgG ([ab172730](#)) instead of ab68167 in HepG2 whole cell lysate

**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

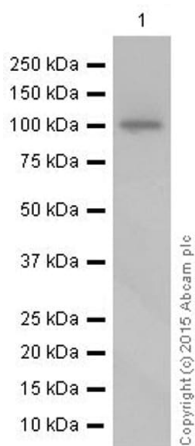
Lysates/proteins at 10 µg per lane.

#### 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

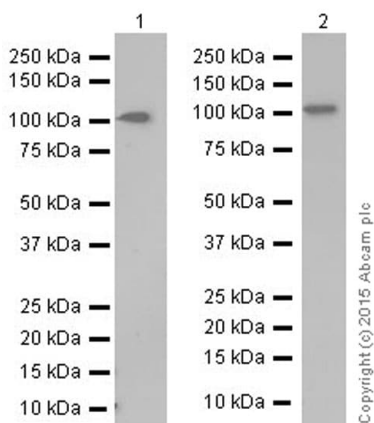
#### Secondary

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"

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