


Product datasheet

Anti-Sarcomeric Alpha Actinin antibody [EA-53] ab9465

★★★★★ [12 Abreviews](#) [236 References](#) [2 Images](#)

Overview

Product name	Anti-Sarcomeric Alpha Actinin antibody [EA-53]
Description	Mouse monoclonal [EA-53] to Sarcomeric Alpha Actinin
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Rat, Human Predicted to work with: Rabbit 
Immunogen	Full length native protein (purified) corresponding to Rabbit Sarcomeric Alpha Actinin. Purified rabbit skeletal α -actinin.
Positive control	WB: Mouse and rat skeletal muscle and rat heart tissue lysates. IHC-P: Human skeletal muscle tissue.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 9th September 2019. Lot numbers higher than GR3258034 are from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>Storage in “frost-free” freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Please see notes section.

Storage buffer	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Proprietary Purification
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	EA-53
Myeloma	unknown
Isotype	IgG1
Light chain type	unknown

Applications

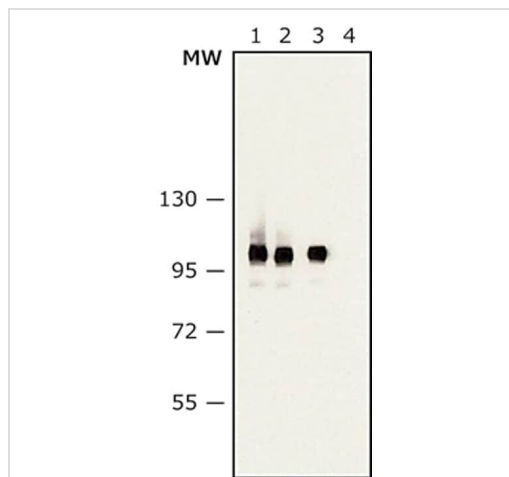
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9465 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 - 20 µg/ml. ABC method. We suggest an incubation period of 60 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation and dilutions should be determined by the user.
WB	★★★★★ (2)	Use a concentration of 2 - 4 µg/ml. Detects a band of approximately 103 kDa (predicted molecular weight: 103 kDa).

Target

Function	F-actin cross-linking protein which is thought to anchor actin to a variety of intracellular structures. This is a bundling protein.
Tissue specificity	Expressed in both skeletal and cardiac muscle.
Involvement in disease	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.
Sequence similarities	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.
Cellular localization	Cytoplasm > myofibril > sarcomere > Z line. Colocalizes with MYOZ1 and FLNC at the Z-lines of skeletal muscle.

Images



Western blot - Anti-Sarcomeric Alpha Actinin antibody [EA-53] (ab9465)

Lane 1 : Anti-Sarcomeric Alpha Actinin antibody [EA-53] (ab9465) at 1/500 dilution

Lane 2 : Anti-Sarcomeric Alpha Actinin antibody [EA-53] (ab9465) at 1/1000 dilution

Lane 3 : Anti-Sarcomeric Alpha Actinin antibody [EA-53] (ab9465) at 1/2000 dilution

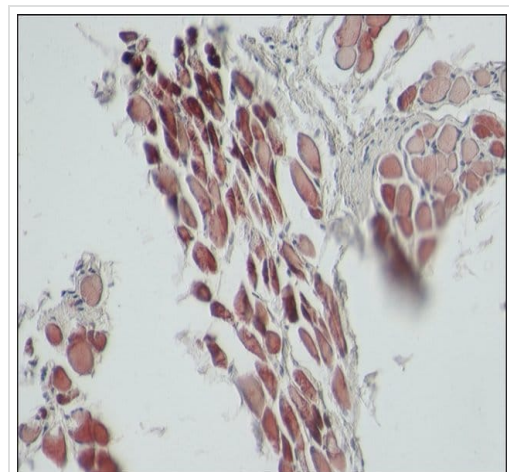
Lane 4 : No antibody control

All lanes : Rat skeletal muscle extract

Secondary

All lanes : Goat Anti-Mouse IgG (Fab) (HRP) at 1/4000 dilution

Predicted band size: 103 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sarcomeric Alpha Actinin antibody [EA-53] (ab9465)

Immunohistochemistry formalin-fixed, paraffin-embedded human tongue labeling Alpha Actinin with ab9465 at 12 µg/mL.

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