

## Product datasheet

# Anti-Sarcomeric Alpha Actinin antibody ab72592

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### Overview

<b>Product name</b>	Anti-Sarcomeric Alpha Actinin antibody
<b>Description</b>	Rabbit polyclonal to Sarcomeric Alpha Actinin
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide derived from the N-terminal of human Sarcomeric Alpha Actinin.
<b>General notes</b>	<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&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 0.87% Sodium chloride, 50% Glycerol (glycerin, glycerine), PBS</p>
<b>Purity</b>	Without Mg <sup>2+</sup> and Ca <sup>2+</sup>
<b>Clonality</b>	Immunogen affinity purified
<b>Isotype</b>	Polyclonal
	IgG

### Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab72592 in the following tested applications.

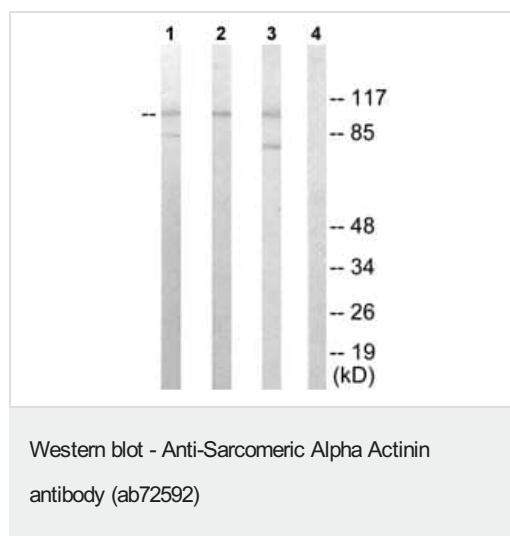
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 103 kDa (predicted molecular weight: 103 kDa).
IHC-P		1/50 - 1/100.
ICC/IF		1/500 - 1/1000.

## Target

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

## Images



**All lanes :** Anti-Sarcomeric Alpha Actinin antibody (ab72592) at 1/500 dilution

**Lane 1 :** Extracts from HeLa cells

**Lane 2 :** Extracts from HepG2 cells

**Lane 3 :** Extracts from HUVEC cells

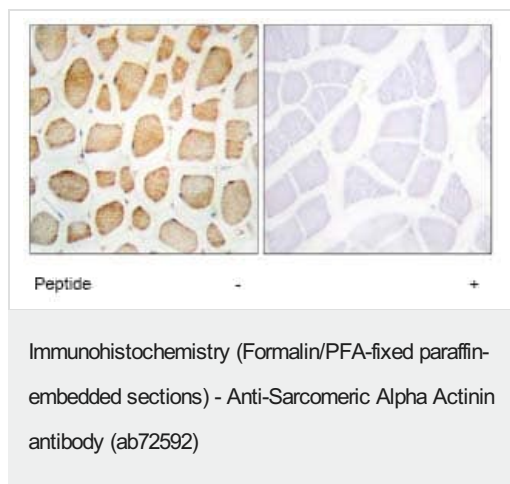
**Lane 4 :** Extracts from HUVEC cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

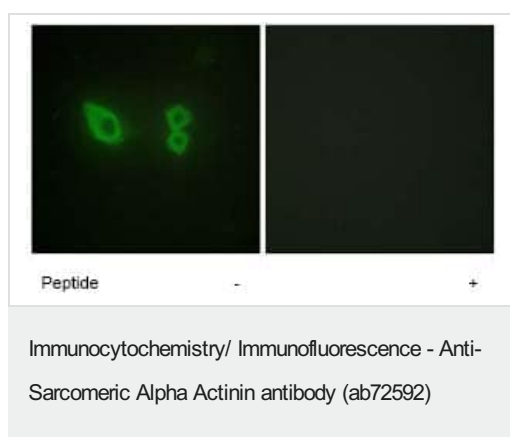
**Predicted band size:** 103 kDa

**Observed band size:** 103 kDa

**Additional bands at:** 80 kDa, 85 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue using ab72592, at 1/50 dilution, in the presence (right panel) or absence (left panel) of immunising peptide.



Immunofluorescent analysis of HeLa cells using ab72592, at 1/500 dilution, in the presence (right panel) or absence (left panel) of the immunising peptide.

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

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