Overview

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

General notes:
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.

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.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 0.87% Sodium chloride, 50% Glycerol (glycerin, glycerine), PBS
Without Mg2+ and Ca2+

Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

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

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"

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.com/abpromise or contact our technical team.

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