

For Research Use Only

# CoraLite®594-conjugated Alpha Actinin Recombinant monoclonal antibody



Catalog Number:CL594-86340-2

## Basic Information

**Catalog Number:**

CL594-86340-2

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1859

**GenBank Accession Number:**

BC015766

**GeneID (NCBI):**

87

**UNIPROT ID:**

P12814

**Full Name:**

actinin, alpha 1

**Calculated MW:**

103 kDa

**Observed MW:**

100-105 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

250833F4

**Recommended Dilutions:**

IF-P: 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

IF-P

**Species Specificity:**

human, mouse, rat

**Positive Controls:**

IF-P: rat heart tissue,

## Background Information

Alpha Actinins are highly conserved actin-binding proteins that form antiparallel homodimers with the actin-binding domains on each end of the molecule, allowing crosslinking of actin molecules. There are four alpha actinin isoforms identified: two ubiquitously expressed cytoskeletal isoforms (ACTN1 and ACTN4) and two striated muscle-specific sarcomeric isoforms (ACTN2 and ACTN3). ACTN1 is also alternatively spliced to form smooth muscle or brain specific isoforms. This antibody recognize endogenous ACTN1, while it may cross-react with ACTN2 and ACTN4.

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

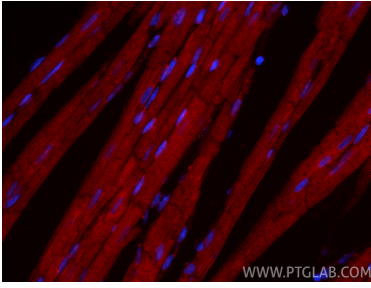
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat heart tissue using CoraLite®594 Alpha Actinin antibody (CL594-86340-2, Clone: 250833F4) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).