

For Research Use Only

CoraLite®594-conjugated ACTN2 Recombinant monoclonal antibody

Catalog Number:CL594-85857-4



Basic Information

Catalog Number:

CL594-85857-4

GenBank Accession Number:

BC051770

Purification Method:

Protein A purification

Size:

100ul , Concentration: 1000 ug/ml by
Nanodrop;

GeneID (NCBI):

88

CloneNo.:

250229F6

Source:

Rabbit

UNIPROT ID:

P35609

Recommended Dilutions:

IF/ICC: 1:50-1:500

Isotype:

IgG

Full Name:

actinin, alpha 2

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Immunogen Catalog Number:

AG5459

Calculated MW:

104 kDa

Observed MW:

103 kDa

Applications

Tested Applications:

IF/ICC

Positive Controls:

IF/ICC : H9C2 cells,

Species Specificity:

human, mouse, rat

Background Information

Alpha actinin 2 (ACTN2) belongs to the alpha-actinin family and is expressed in both skeletal and cardiac muscles, and functions to anchor myofibrillar actin thin filaments and titin to Z-discs (PMID: 30701273). ACTN2 is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. Mutations in ACTN2 are associated with hypertrophic cardiomyopathy, as well as dilated cardiomyopathy and endocardial fibroelastosis (PMID: 20022194, 14567970).

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

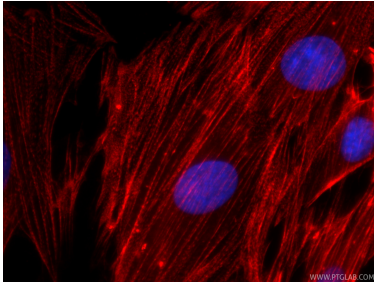
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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 (-20°C Ethanol) fixed H9C2 cells using CoraLite®594 ACTN2 antibody (CL594-85857-4, Clone: 250229F6) at dilution of 1:200.