

For Research Use Only

CoraLite® Plus 647-conjugated ACTN2 Recombinant monoclonal antibody

Catalog Number: CL647-85857-4



Basic Information

Catalog Number:

CL647-85857-4

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5459

GenBank Accession Number:

BC051770

GeneID (NCBI):

88

UNIPROT ID:

P35609

Full Name:

actinin, alpha 2

Calculated MW:

104 kDa

Observed MW:

103 kDa

Purification Method:

Protein A purification

CloneNo.:

250229F6

Recommended Dilutions:

IF-P: 1:500-1:2000

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

IF-P

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: mouse heart tissue,

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:

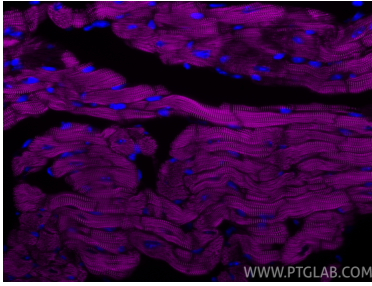
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using CoraLite® Plus 647 ACTN2 antibody (CL647-85857-4, Clone: 250229F6) at dilution of 1:1000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).