

For Research Use Only

CoraLite® Plus 647-conjugated ACTN2 Recombinant monoclonal antibody

Catalog Number: CL647-85857-4



Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL647-85857-4	BC051770	Protein A purification
Source:	GenID (NCBI):	CloneNo.:
Rabbit	88	250229F6
Isotype:	UNIPROT ID:	Recommended Dilutions:
IgG	P35609	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	Full Name:	Excitation/Emission maxima
AG5459	actinin, alpha 2	wavelengths:
	Calculated MW:	654 nm / 674 nm
	104 kDa	
	Observed MW:	
	103 kDa	

Applications

Tested Applications:	Positive Controls:
IF/ICC	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

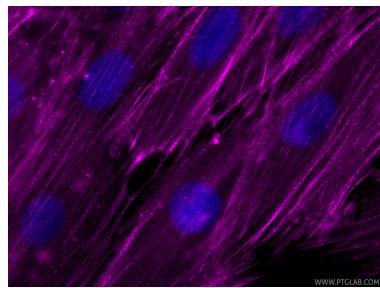
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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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 (-20°C Ethanol) fixed H9C2 cells using Coralite® Plus 647 ACTN2 antibody (CL647-85857-4, Clone: 250229F6) at dilution of 1:200.