

For Research Use Only

# CoraLite® Plus 647-conjugated ALDH2 Recombinant monoclonal antibody

Catalog Number: CL647-86429-5



## Basic Information

Catalog Number:	CL647-86429-5	GenBank Accession Number:	BC002967	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	217	Clone No.:	251287E9
Isotype:	IgG	UNIPROT ID:	P05091	Recommended Dilutions:	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	AG7452	Full Name:	aldehyde dehydrogenase 2 family (mitochondrial)	Excitation/Emission maxima wavelengths:	654 nm / 674 nm
		Calculated MW:	56 kDa		
		Observed MW:	50-55 kDa		

## Applications

Tested Applications:	Positive Controls:
IF/ICC	IF/ICC : C2C12 cells,
Species Specificity:	

human, mouse, rat

## Background Information

Acetaldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. It mediates NADP+-dependent oxidation of aldehydes into acids during detoxification of alcohol-derived acetaldehyde; lipid peroxidation; and metabolism of corticosteroids, biogenic amines and neurotransmitters. Genetic variation in ALDH2 is responsible for individual differences in responses to drinking alcohol. Thus, the absence of this enzyme is linked to alcohol intolerance and a reduced risk for alcoholism-related liver disease.

## Storage

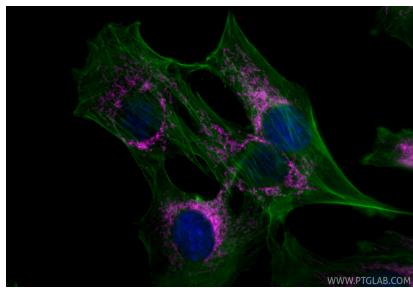
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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 C2C12 cells using Coralite® Plus 647 ALDH2 antibody (CL647-86429-5, Clone: 251287E9) at dilution of 1:200, CL488-phalloidin (green).