

For Research Use Only

# CoraLite® Plus 488-conjugated Desmin Polyclonal antibody

Catalog Number:**CL488-16520**

Featured Product

1 Publications



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL488-16520	BC032116	Antigen affinity purification
Size:	GenID (NCBI):	Recommended Dilutions:
100μl , Concentration: 1000 ug/ml by Nanodrop;	1674	IF-P 1:50-1:500 IF/ICC 1:50-1:500
Source:	UNIPROT ID:	Excitation/Emission maxima wavelengths:
Rabbit	P17661	493 nm / 522 nm
Isotype:	Full Name:	
IgG	desmin	
Immunogen Catalog Number:	Calculated MW:	
AG9742	470 aa, 54 kDa	
	Observed MW:	
	52-53 kDa	

## Applications

Tested Applications:	Positive Controls:
IF/ICC, IF-P, FC (Intra)	IF-P: mouse heart tissue, mouse small intestine tissue, rat heart tissue
Species Specificity:	IF/ICC: C2C12 cells,
human, mouse, rat	
Cited Species:	
mouse	

## Background Information

Desmin is the main intermediate filament protein in skeletal and cardiac muscle cells and is essential for both the structural integrity and the survival of muscle cells. As an abundant muscle-specific protein, desmin has been widely used as a marker of muscle derived tumors. Anti-desmin is also valuable in the differential diagnosis of tumors of uncertain origin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wei Chang	37643584	J Vasc Res	FC

## 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, pH 7.3.

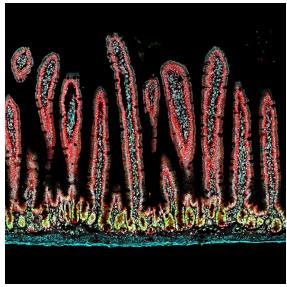
Aliquoting is unnecessary for -20°C storage

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)

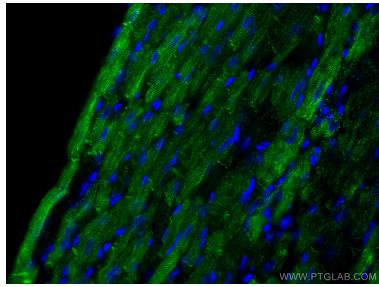
E: proteintech@ptglab.com  
W: ptglab.com

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

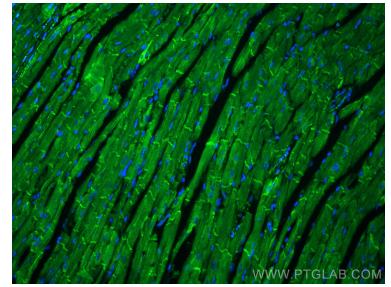
## Selected Validation Data



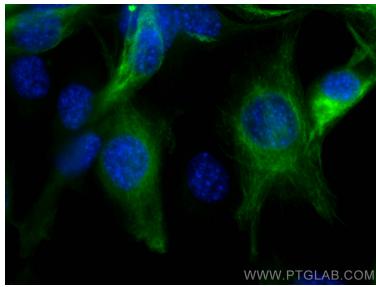
Adult mouse small intestine was co-stained with desmin (CL488-16520, in cyan), E-cadherin (20874-1-AP, in red), and PCNA (60097-1-Ig, in green). Desmin marks the stromal cells and smooth muscle, E-cadherin marks the gut epithelial cells, and PCNA marks proliferating cells. The image was created in paid partnership with @Immunofluorescence on Instagram.



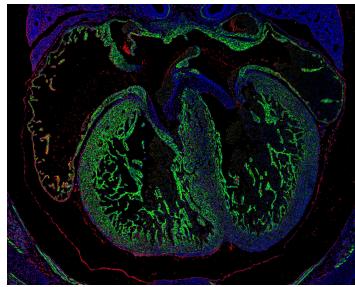
Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using CoraLite® Plus 488 Desmin antibody (CL488-16520) at dilution of 1:100.



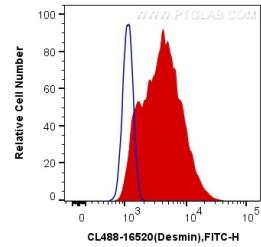
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using CoraLite® Plus 488 Desmin antibody (CL488-16520) at dilution of 1:200.



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using CoraLite® Plus 488 Desmin antibody (CL488-16520) at dilution of 1:200.



E14.5 FFPE mouse heart stained for Desmin (green, Cat. No CL488-16520) and PCNA (red, Cat. No 60097-1-Ig). Desmin was conjugated to CoraLite-488 fluorescent dye and stains cardiomyocytes (heart muscle cells). PCNA stains proliferating cells, which are numerous in the developing heart. In this image, the four chambers of the heart can be easily visualized. Image credit: @Immunofluorescence on Instagram.



1X10<sup>6</sup> C2C12 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human Desmin (CL488-16520) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).