

For Research Use Only

# Desmin Polyclonal antibody

Catalog Number: 16520-1-AP

Featured Product

78 Publications



## Basic Information

### Catalog Number:

16520-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9742

### GenBank Accession Number:

BC032116

### GeneID (NCBI):

1674

### UNIPROT ID:

P17661

### Full Name:

desmin

### Calculated MW:

470 aa, 54 kDa

### Observed MW:

52-53 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:20000-1:100000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:4000-1:16000

IF-P 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, chicken, sheep

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: mouse heart tissue, human heart tissue, rat heart tissue

**IP**: mouse heart tissue,

**IHC**: human appendicitis tissue, human colon tissue, human heart tissue, human hysterosarcoma tissue, human placenta tissue, human skeletal muscle tissue

**IF-P**: rat heart tissue, mouse heart tissue

**IF/ICC**: C2C12 cells,

## 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
Hejie Wang	36178582	In Vitro Cell Dev Biol Anim	WB
Shuai Yu	34616727	Front Cell Dev Biol	WB
Qing Ye	34734004	Ann Transl Med	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

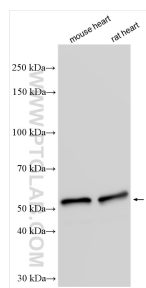
For technical support and original validation data for this product please contact:

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

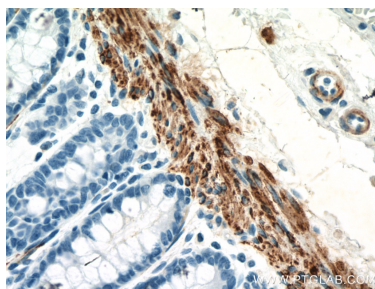
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

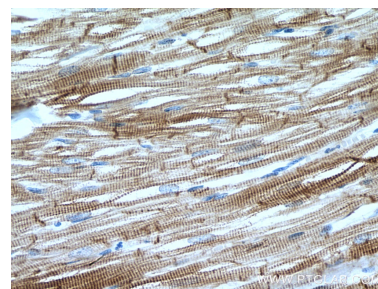
## Selected Validation Data



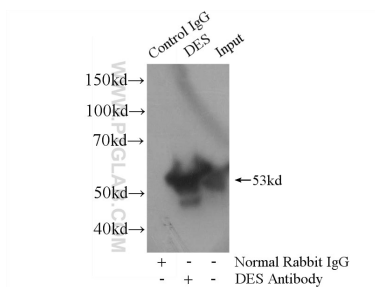
Various lysates were subjected to SDS PAGE followed by western blot with 16520-1-AP (Desmin antibody) at dilution of 1:80000 incubated at room temperature for 1.5 hours.



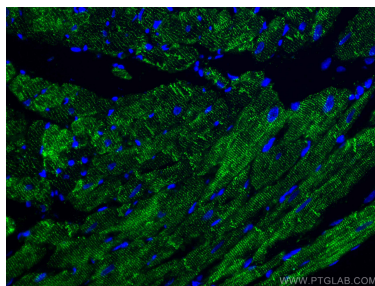
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16520-1-AP (Desmin antibody) at dilution of 1:12800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



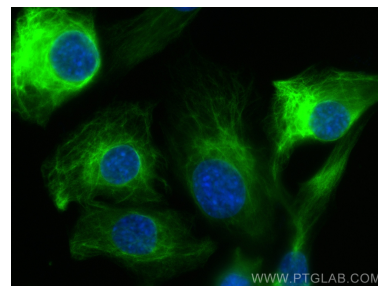
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 16520-1-AP (Desmin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



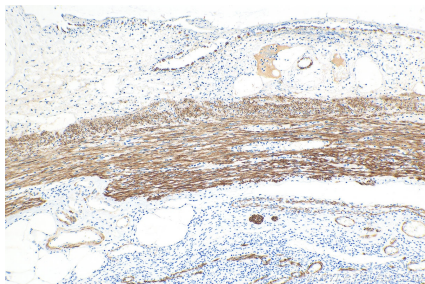
IP result of anti-Desmin (IP:16520-1-AP, 4ug; Detection:16520-1-AP 1:3000) with mouse heart tissue lysate 8000ug.



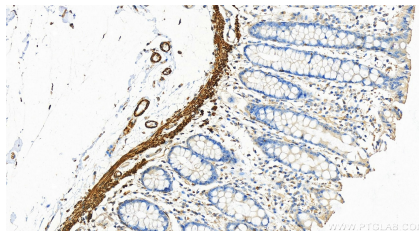
Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using Desmin antibody (16520-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Desmin antibody (16520-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 16520-1-AP (Desmin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 16520-1-AP (Desmin antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).