

For Research Use Only

# Desmin Monoclonal antibody

Catalog Number: 67793-1-Ig **8 Publications**



## Basic Information

<b>Catalog Number:</b> 67793-1-Ig	<b>GenBank Accession Number:</b> BC032116	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 494 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1674	<b>CloneNo.:</b> 2B1A11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P17661	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> desmin	
<b>Immunogen Catalog Number:</b> AG9675	<b>Calculated MW:</b> 470 aa, 54 kDa	
	<b>Observed MW:</b> 52 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Cited Applications:**  
WB, IF

**Species Specificity:**  
human, mouse, pig

**Cited Species:**  
mouse, rat

**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 :** pig heart tissue, mouse skeletal muscle tissue, mouse testis tissue, pig skeletal muscle, pig colon

**IHC :** human colon tissue, human placenta tissue, human rectal cancer tissue, mouse skeletal muscle tissue

**IF-P :** human colon tissue, human appendicitis tissue, mouse skeletal muscle tissue

## 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
Zongren Hu	36571651	Mol Cell Biochem	WB,IF
Weifeng Hu	34921827	Exp Cell Res	IF
Yingzheng Weng	35451888	DNA Cell Biol	IF

## Storage

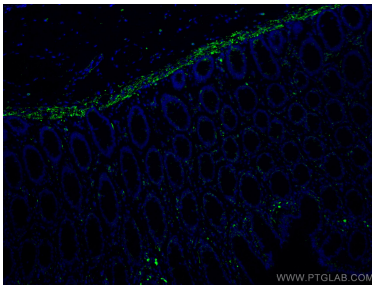
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

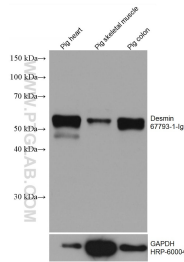
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

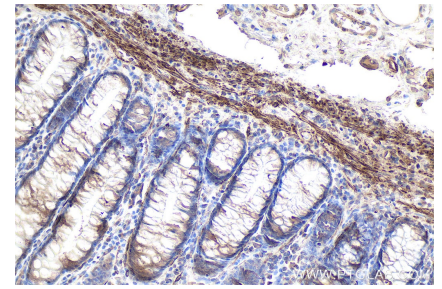
## Selected Validation Data



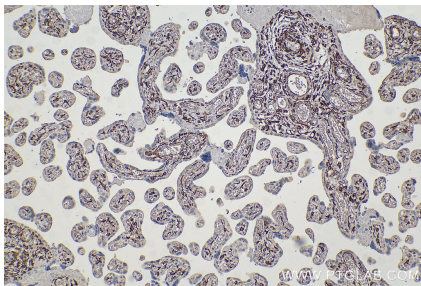
Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Desmin antibody (67793-1-Ig, Clone: 2B1A11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). DAPI (blue).



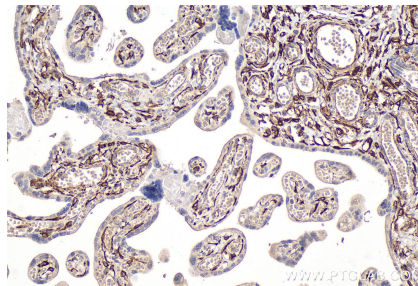
Various lysates were subjected to SDS PAGE followed by western blot with 67793-1-Ig (Desmin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



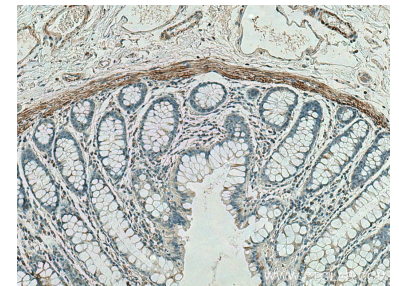
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67793-1-Ig (Desmin antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



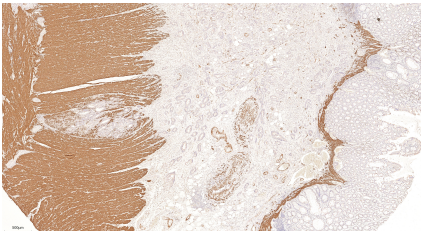
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 67793-1-Ig (Desmin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



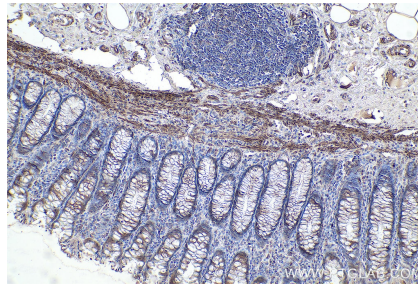
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 67793-1-Ig (Desmin antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



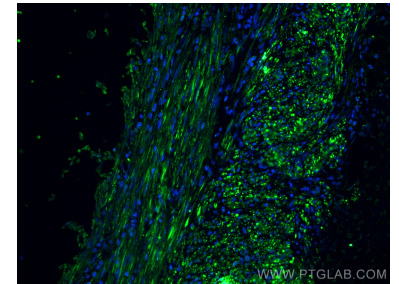
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67793-1-Ig (Desmin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



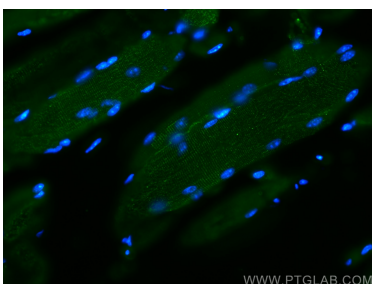
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 67793-1-Ig (Desmin antibody) at dilution of 1:2000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67793-1-Ig (Desmin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human appendicitis tissue using Desmin antibody (67793-1-Ig, Clone: 2B1A11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using Desmin antibody (67793-1-Ig, Clone: 2B1A11 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).