

For Research Use Only

Desmin Polyclonal antibody

Catalog Number: 16520-1-AP

Featured Product

84 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

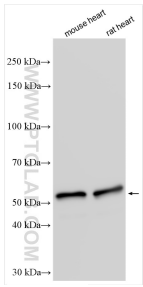
For technical support and original validation data for this product please contact:

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

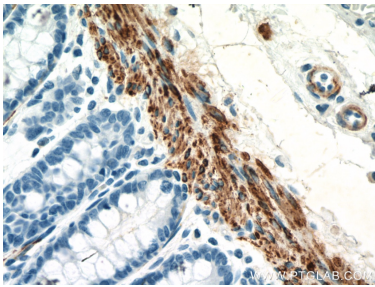
E: proteintech@ptglab.com
W: ptglab.com

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

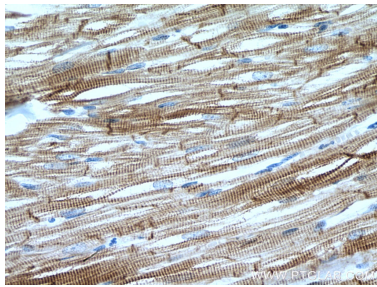
Selected Validation Data



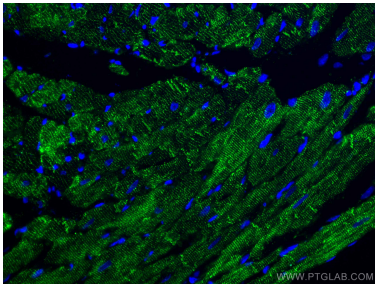
Various lysates were subjected to SDS PAGE followed by western blot with 16520-1-AP (Desmin antibody) at dilution of 1:80000 incubated at room temperature for 1.5 hours.



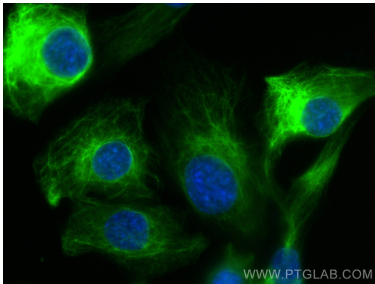
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 16520-1-AP (Desmin antibody) at dilution of 1:12800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



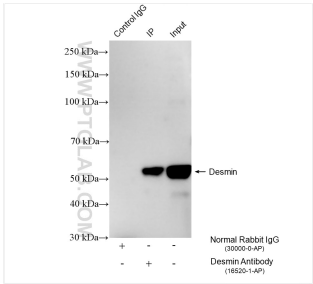
Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 16520-1-AP (Desmin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



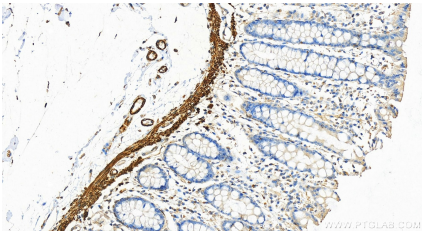
Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using Desmin antibody (16520-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



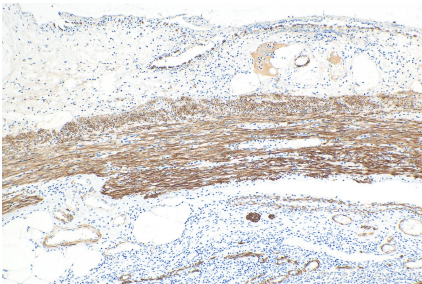
Immunofluorescent analysis of (-20°C Methanol) fixed C2C12 cells using Desmin antibody (16520-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-Desmin (IP:16520-1-AP, 4ug; Detection:16520-1-AP 1:500000) with mouse heart tissue lysate 1880 ug.



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).



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).