

For Research Use Only

Desmoplakin Polyclonal antibody



Catalog Number: 25318-1-AP

Featured Product

7 Publications

Basic Information

Catalog Number:

25318-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18065

GenBank Accession Number:

BC140802

GeneID (NCBI):

1832

Full Name:

desmoplakin

Calculated MW:

2871 aa, 332 kDa

Observed MW:

240-330 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:2500-1:10000

IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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: HepG2 cells, HeLa cells, mouse heart tissue

IHC: rat heart tissue, mouse heart tissue

IF: A431 cells, rat heart tissue

Background Information

The desmoplakin (DP) is the most abundant desmosomal proteins and is located at the cytoplasmic portion of the desmosomes which are specialized cell-cell adhesion structures abundant in tissues such as muscle and epidermis that are subjected to mechanical stress. Desmoplakin 1 and 2 (DP 1 and 2) are two splice variants sharing common C-terminal and N-terminal globular head and tail domains, but differ in the length of the rod domain that links them. This antibody detects both DP1 (280-330 kDa) and DP2 (240-260 kDa). (PMID: 16467215, 11781569)

Notable Publications

Author	Pubmed ID	Journal	Application
Yanlei Yang	33993187	Cell Death Discov	WB
Tomohiko Sano	33802279	Cancers (Basel)	WB
Min Zhang	31410202	Theranostics	WB,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

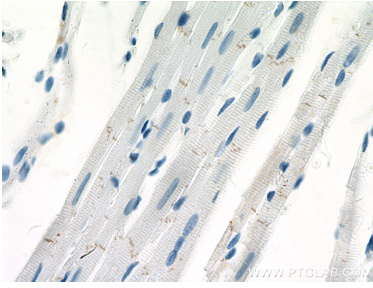
For technical support and original validation data for this product please contact:

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

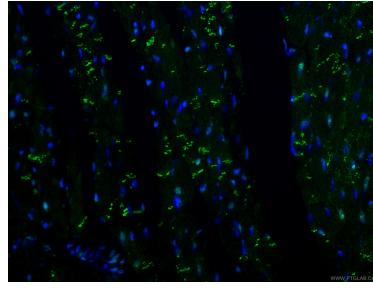
E: proteintech@ptglab.com
W: ptglab.com

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

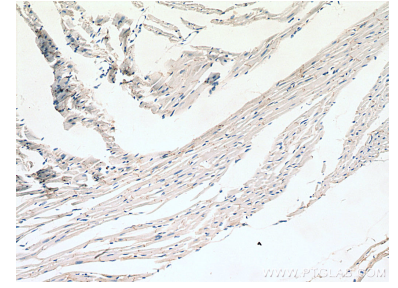
Selected Validation Data



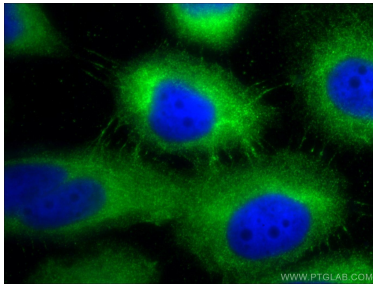
Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



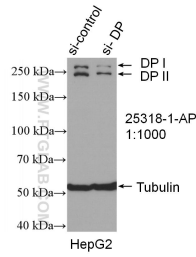
Immunofluorescent analysis of (4% PFA) fixed rat heart tissue using 25318-1-AP (Desmoplakin antibody), at dilution of 1:500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of A431 cells using 25318-1-AP (Desmoplakin antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of Desmoplakin antibody (25318-1-AP; 1:1000); incubated at room temperature for 1.5 hours) with sh-Control and sh-Desmoplakin transfected HepG2 cells.