

For Research Use Only

# Desmoplakin Polyclonal antibody

Catalog Number: 25318-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

25318-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18065

### GenBank Accession Number:

BC140802

### GeneID (NCBI):

1832

### UNIPROT ID:

P15924

### Full Name:

desmoplakin

### Calculated MW:

2871 aa, 332 kDa

### Observed MW:

240-330 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:16000

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

IHC: 1:2500-1:10000

IF/ICC: 1:750-1:3000

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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: A431 cells, HepG2 cells, mouse heart tissue, BxPC-3 cells, HEK-293 cells

IP: BxPC-3 cells,

IHC: rat heart tissue, human normal colon, human bowen disease, mouse heart tissue

IF/ICC: A431 cells,

FC (Intra): A431 cells,

## 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
Xiang Wang	31609038	Genes Cells	
Jing Wang	36357564	Cancer Gene Ther	WB
Yanlei Yang	33993187	Cell Death Discov	WB

## 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

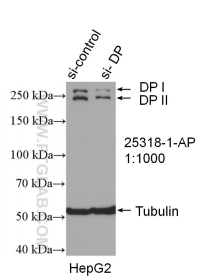
For technical support and original validation data for this product please contact:

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

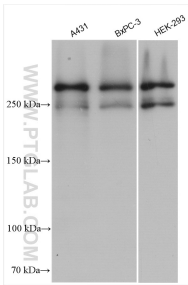
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

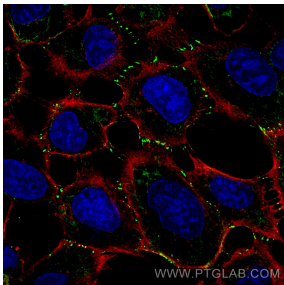
Selected Validation Data



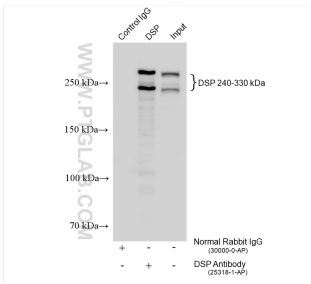
WB result of Desmoplakin antibody (25318-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Desmoplakin transfected HepG2 cells.



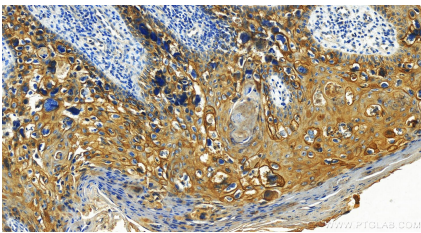
Various lysates were subjected to SDS PAGE followed by western blot with 25318-1-AP (Desmoplakin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



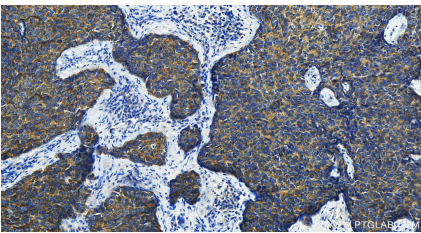
Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Desmoplakin antibody (25318-1-AP) at dilution of 1:1500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L), Beta Actin antibody (66009-1-Ig, Clone: 2D4H5, red).



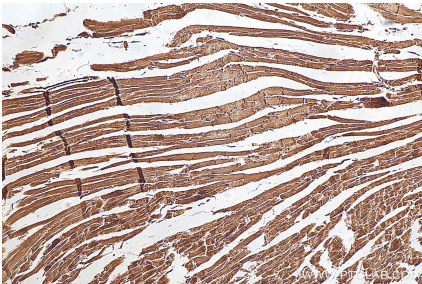
IP result of anti-Desmoplakin (IP:25318-1-AP, 4ug; Detection:25318-1-AP 1:10000) with BxPC-3 cells lysate 2080 ug.



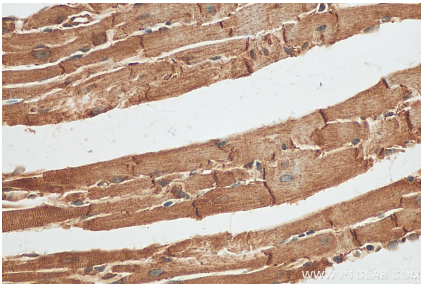
Immunohistochemical analysis of paraffin-embedded human Bowen disease slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



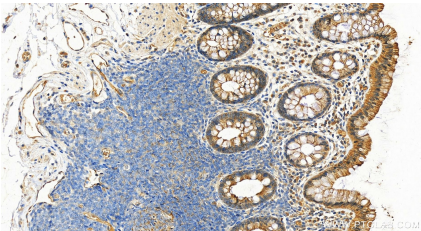
Immunohistochemical analysis of paraffin-embedded human Bowen disease slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



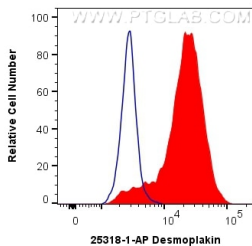
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 25318-1-AP (Desmoplakin antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> A431 cells were intracellularly stained with 0.4 ug Anti-Human Desmoplakin (25318-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).