

# DSP Monoclonal antibody

Catalog Number: 68364-1-Ig

## Basic Information

## Catalog Number:

68364-1-Ig

## Size:

1000 µg/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG30499

## 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:

Protein G purification

## CloneNo.:

1B10D4

## Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF/ICC 1:500-1:2000

## Applications

## Tested Applications:

IF/ICC, IHC, WB, ELISA

## Species Specificity:

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, A431 cells, MCF-7 cells, HEK-293 cells

IHC: mouse heart tissue,

IF/ICC: 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)

## Storage

## Storage:

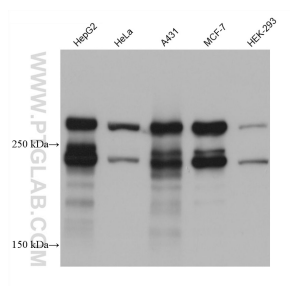
Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

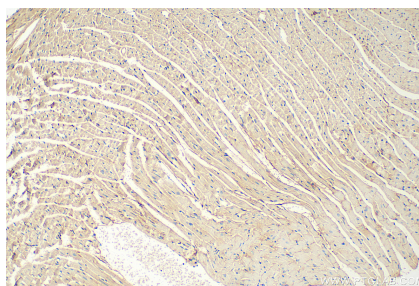
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

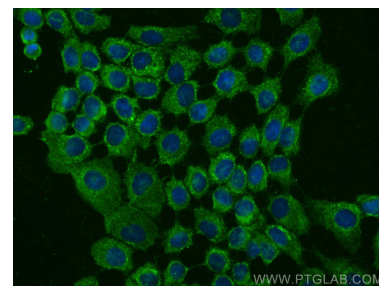
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68364-1-Ig (DSP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 68364-1-Ig (DSP antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using DSP antibody (68364-1-Ig, Clone: 1B10D4) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).