

## Basic Information

Product Name	Anti-Desmoplakin/DSP Antibody	
Gene Name	DSP	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human Desmoplakin recombinant protein (Position: Q1810-A2092). Human Desmoplakin shares 94% and 95.8% amino acid (aa) sequence identity with mouse and rat Desmoplakin, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	250 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

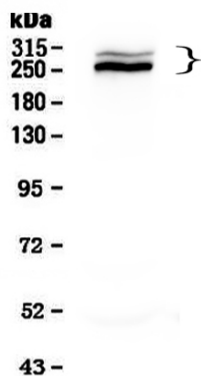
## Background Information

Desmoplakin is a protein in humans that is encoded by the DSP gene. This gene encodes a protein that anchors intermediate filaments to desmosomal plaques and forms an obligate component of functional desmosomes. Mutations in this gene are the cause of several cardiomyopathies and keratodermas, including skin fragility-woolly hair syndrome. Alternative splicing results in multiple transcript variants.

## Reference

Anti-Desmoplakin/DSP Antibody被引用在1文献中。

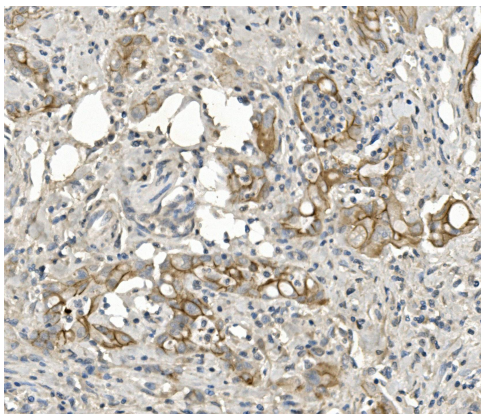
## Selected Validation Data



Western blot analysis of Desmoplakin/DSP using anti-Desmoplakin/DSP antibody (A00616-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

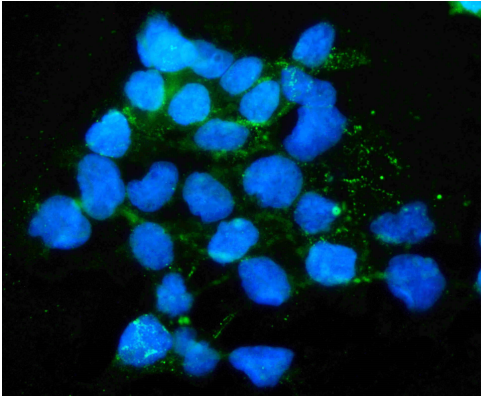
Lane 1: human HepG2 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Desmoplakin/DSP antigen affinity purified polyclonal antibody (A00616-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Desmoplakin/DSP at approximately 250 kDa. The expected band size for Desmoplakin/DSP is at 332 kDa.



IHC analysis of Desmoplakin/DSP using anti-Desmoplakin/DSP antibody (A00616-1).

Desmoplakin/DSP was detected in a paraffin-embedded section of human rectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Desmoplakin/DSP Antibody (A00616-1) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of DSP using anti-DSP antibody (A00616-1).

DSP was detected in immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2µg/mL rabbit anti-DSP Antibody (A00616-1) overnight at 4°C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.