Product datasheet

Anti-Desmoplakin/DSP Antibody

Catalog Number: *A00616-1*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Desmoplakin/DSP Antibody
Gene Name	DSP
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	E. coli-derived human Desmoplakin recombinant protein (Position: Q1810-A2092).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	250KD
Dilution Ratios	Western blot(WB): 1:500-2000 (ELISA)： 1:100-1000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (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℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

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.

Selected Validation Data

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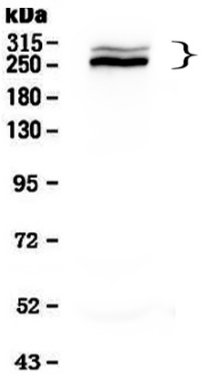

Figure 1. Western blot analysis of Desmoplakin using anti-Desmoplakin antibody (A00616-1). Lane 1: human HepG2 whole cell lysates. anti-Desmoplakin antigen affinity purified polyclonal antibody (Catalog # A00616-1)probed with a goat anti-rabbit IgG-HRP secondary antibody The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) . A specific band was detected for Desmoplakin at approximately 250-280KD. The expected band size for Desmoplakin is at 332KD.

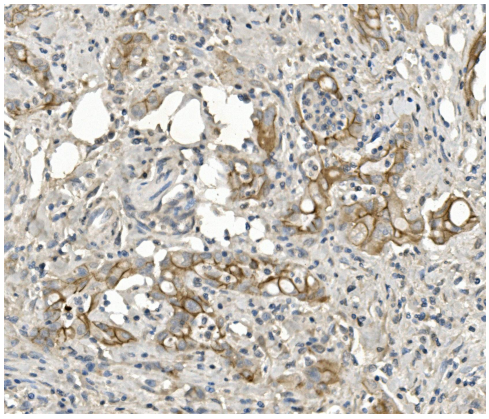

Figure 2. IHC analysis of DSP using anti-DSP antibody (A00616-1). DSP was detected in paraffin-embedded section of human rectal cancer tissue. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-DSP Antibody (A00616-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

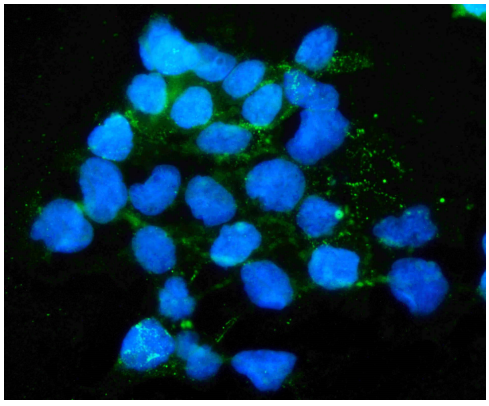

Figure 5.IF analysis of DSP using anti-DSP antibody (A00616-1). DSP was detected in immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2µg/mL 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.