

Datasheet for ABIN5693018
anti-Desmoplakin antibody (AA 1810-2092)



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1 Image

Overview

Quantity:	100 µg
Target:	Desmoplakin (DSP)
Binding Specificity:	AA 1810-2092
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Desmoplakin antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human Desmoplakin recombinant protein (Position: Q1810-A2092).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Desmoplakin detection. Tested with WB, Direct ELISA in Human, Mouse, Rat.

Target Details

Target:	Desmoplakin (DSP)
Alternative Name:	DSP (DSP Products)
Background:	Synonyms: Desmoplakin, DP, 250/210 kDa paraneoplastic pemphigus antigen, DSP

Target Details

Tissue Specificity: Isoform DPI is apparently an obligate constituent of all desmosomes. Isoform DPII resides predominantly in tissues and cells of stratified origin.

Background: 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.

UniProt: [P15924](#)

Pathways: [Cell-Cell Junction Organization](#)

Application Details

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.

Application Details: Western blot, 0.1-0.5 µg/mL

Direct ELISA, 0.1-0.5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

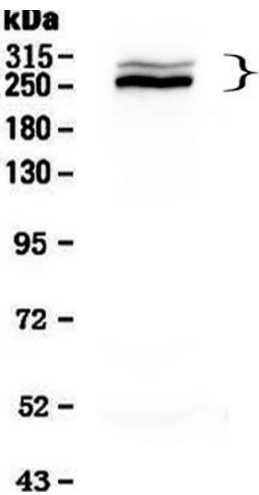
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.

It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot analysis of Desmoplakin using anti-Desmoplakin antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Desmoplakin antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Desmoplakin at approximately 250-280KD. The expected band size for Desmoplakin is at 332KD.