
Product Name: KD-Validated Desmoplakin Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01108

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 331.8kDa

Antigen Information

Gene Name	DSP
Alternative Names	DSP; Desmoplakin; 250/210 KDa Paraneoplastic Pemphigus Antigen; KPPS2; PPKS2; DP11; DPI; DP; Desmoplakin (DPI, DP11); DCWHKTA
Gene ID	1832.0
SwissProt ID	P15924
Immunogen	A synthesized peptide derived from human Desmoplakin

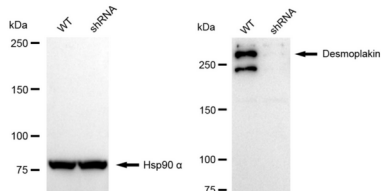
Background

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. [provided by RefSeq, Jan 2016]

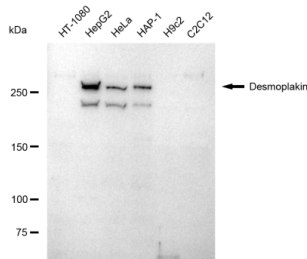
Research Area

Signal Transduction

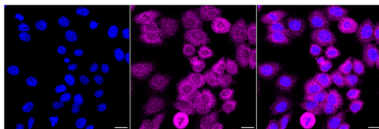
Image Data



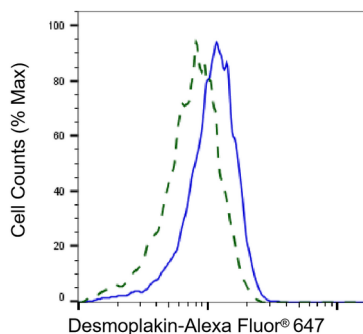
Western blotting analysis using desmoplakin antibody (KVA01108). Desmoplakin expression in wild type (WT) and desmoplakin (DSP) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with desmoplakin antibody (KVA01108, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



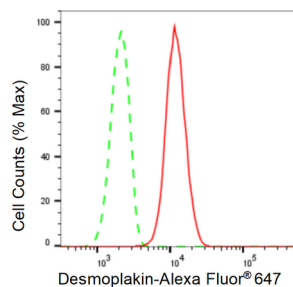
Western blotting analysis using Desmoplakin antibody (KVA01108). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Desmoplakin antibody (KVA01108, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with desmoplakin antibody (KVA01108, 1:1,000). Nuclei were stained blue with DAPI; Desmoplakin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of Desmoplakin knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Desmoplakin antibody (KVA01108, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Desmoplakin expression in HepG2 cells using Desmoplakin antibody (KVA01108, 1:2,000). Green, isotype control; red, Desmoplakin.