
Product Name: KD-Validated Desmocollin 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01110

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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: 100.0kDa

Antigen Information

Gene Name	DSC1
Alternative Names	DSC1; Desmocollin 1; CDHF1; Desmosomal Glycoprotein 2/3; Cadherin Family Member 1; Desmocollin-1; DG2/DG3
Gene ID	1823.0
SwissProt ID	Q08554
Immunogen	A synthesized peptide derived from human Desmocollin 1

Background

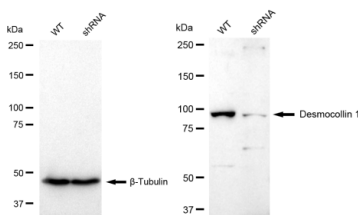
The protein encoded by this gene is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome cell-cell junction and are required for cell adhesion and

desmosome formation. A subtype of IgA pemphigus, a life-threatening autoimmune disease, is characterized by the presence of autoantibodies that target the encoded protein. The desmosomal family members are arranged in two clusters on chromosome 18. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature protein. [provided by RefSeq, Nov 2015]

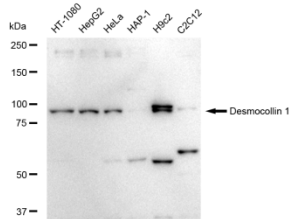
Research Area

Signal Transduction

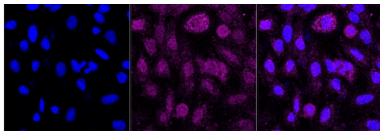
Image Data



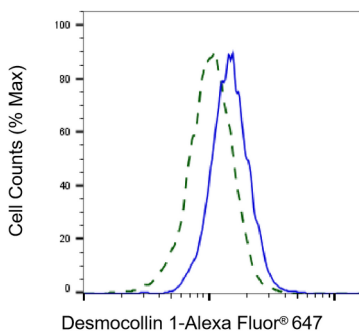
Western blotting analysis using Desmocollin 1 antibody (KVA01110). Desmocollin 1 expression in wild type (WT) and Desmocollin 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Desmocollin 1 antibody (KVA01110, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



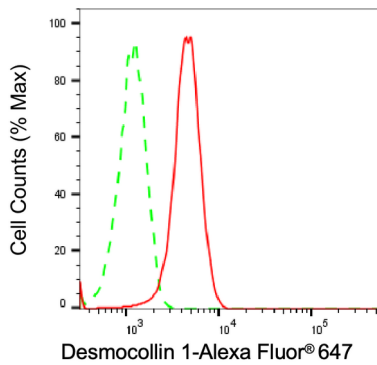
Western blotting analysis using Desmocollin 1 antibody (KVA01110). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Desmocollin 1 antibody (KVA01110, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with Desmocollin 1 antibody (KVA01110, 1:1,000). Nuclei were stained blue with DAPI; Desmocollin 1 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 Desmocollin 1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Desmocollin 1 antibody (KVA01110, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Desmocollin 1 expression in HepG2 cells using Desmocollin 1 antibody (KVA01110, 1:2,000). Green, isotype control; red, Desmocollin 1.