
Product Name: KO-Validated Desmocollin 3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00115

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 100.0kDa

Antigen Information

Gene Name	DSC3
Alternative Names	DSC3; Desmocollin 3; CDHF3; DSC1; DSC2; DSC4; DSC; Cadherin Family Member 3; Desmocollin-3; Desmocollin-4; HT-CP
Gene ID	1825.0
SwissProt ID	Q14574
Immunogen	A synthesized peptide derived from human Desmocollin 3

Background

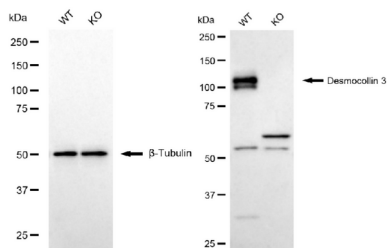
The protein encoded by this gene is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome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

desmosome formation. The desmosomal family members are arranged in two clusters on chromosome 18, occupying less than 650 kb combined. Mutations in this gene are a cause of hypotrichosis and recurrent skin vesicles disorder. The protein can act as an autoantigen in pemphigus diseases, and it is also considered to be a biomarker for some cancers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]

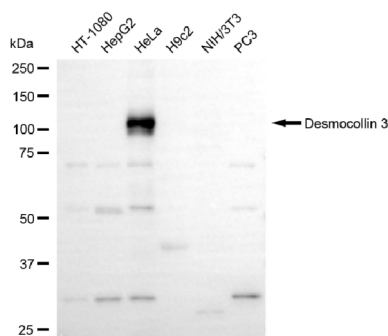
Research Area

Signal Transduction, Cardiovascular

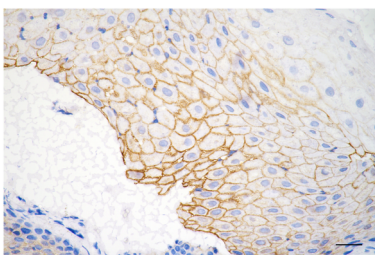
Image Data



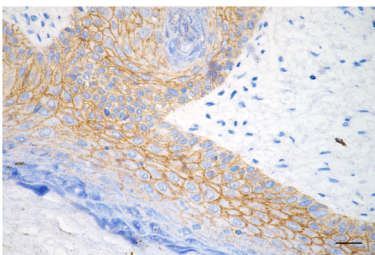
Western blotting analysis using desmocollin 3 antibody (KVA00115). Desmocollin 3 expression in wild-type (WT) and desmocollin 3 (DSC3) knockout (KO) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with desmocollin 3 antibody (KVA00115, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



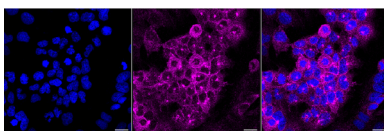
Western blotting analysis using desmocollin 3 antibody (KVA00115). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with desmocollin 3 antibody (KVA00115, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



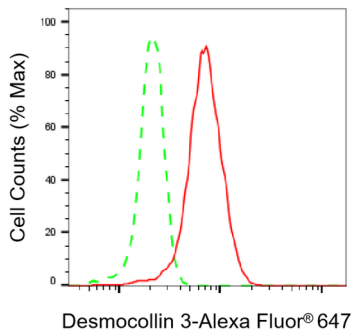
Immunohistochemistry was performed on paraffin-embedded human esophageal carcinoma using desmocollin 3 antibody (KVA00115, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human skin tissue using desmocollin 3 antibody (KVA00115, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells with Desmocollin 3 antibody (KVA00115, 1:1,000). Nuclei were stained blue with DAPI; Desmocollin 3 with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Desmocollin 3 expression in HeLa cells using Desmocollin 3 antibody (KVA00115, 1:2,000). Green, isotype control; red, Desmocollin 3.