

For Research Use Only

DSG1 Polyclonal antibody

Catalog Number: 24587-1-AP

11 Publications



Basic Information

Catalog Number:

24587-1-AP

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20184

GenBank Accession Number:

BC153001

GeneID (NCBI):

1828

UNIPROT ID:

Q02413

Full Name:

desmoglein 1

Calculated MW:

1049 aa, 114 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:500-1:2000

IF/ICC 1:500-1:2000

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse skin tissue, human skin cancer tissue

IF/ICC : A431 cells,

Background Information

Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Desmosomal cadherins, consisting of four desmogleins (DSG1-4) and three desmocollins (DSC1-3) in humans, mediate adhesion through calcium-dependent homophilic/heterophilic interactions. DSG1 is a single-pass transmembrane glycoprotein highly expressed in the epidermis and localized primarily within the suprabasal epithelial layers (PMID: 16286477; 24220297). DSG1 mediates intercellular adhesion and is crucial in maintaining epidermal integrity and barrier function (PMID: 23974871). It is also involved in epithelial cell differentiation (PMID: 23524961). Mutations in the DSG1 gene can cause the autosomal dominant disorder to striate palmoplantar keratoderma and a syndrome featuring severe dermatitis, multiple allergies, and metabolic wasting (SAM syndrome) (PMID: 29315490; 23974871).

Notable Publications

Author	Pubmed ID	Journal	Application
Martyna Pakula	31110245	Sci Rep	IHC,IF
Valentina Iadevaia	35098996	J Cell Sci	IF
Shoko Ishikawa	35289919	Microscopy (Oxf)	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

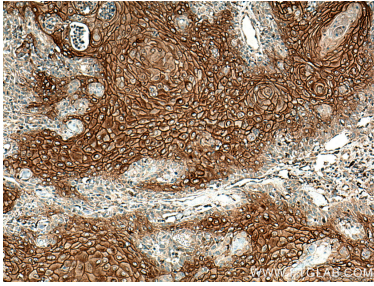
T: 4006900926

E: Proteintech-CN@ptglab.com

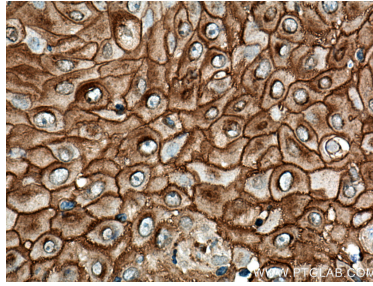
W: ptgcn.com

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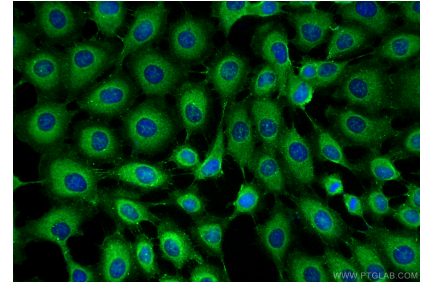
Selected Validation Data



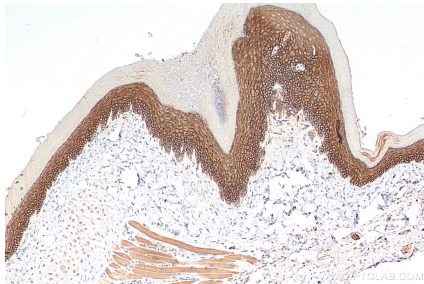
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 10x lens). heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



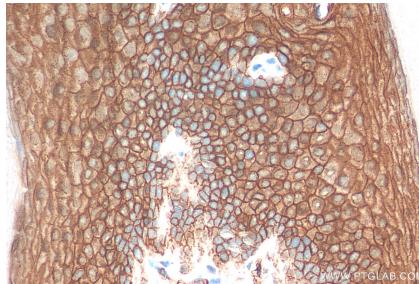
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 40x lens). heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using DSG1 antibody (24587-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).