

For Research Use Only

# DSG1 Polyclonal antibody, PBS Only

Catalog Number: 24587-1-PBS



## Basic Information

Catalog Number:

24587-1-PBS

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

## Applications

Tested Applications:

IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat

## 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).

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS only, pH7.3

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

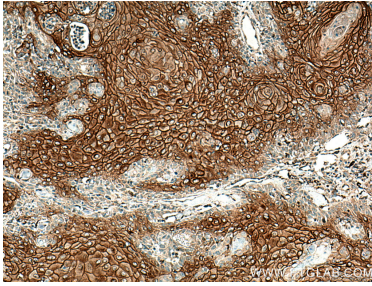
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

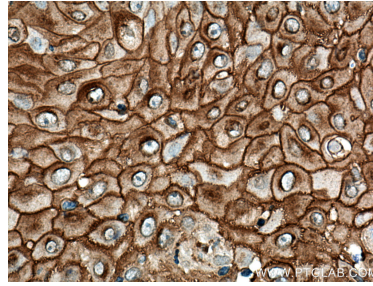
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

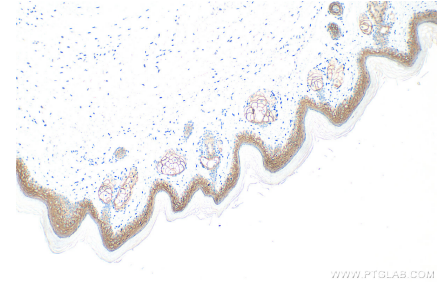
## Selected Validation Data



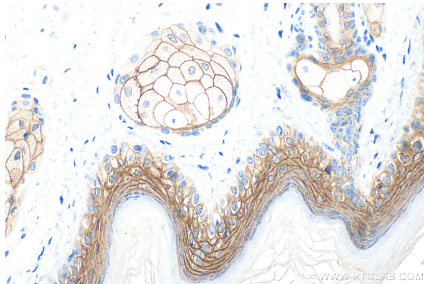
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9). This data was developed using the same antibody clone with 24587-1-PBS in a different storage buffer formulation.



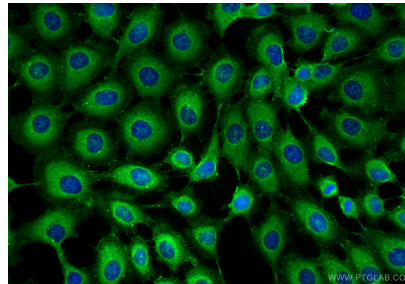
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer(pH9). This data was developed using the same antibody clone with 24587-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 24587-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 24587-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using DSG1 antibody (24587-1-AP) at dilution of 1:1000 and CoralLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 24587-1-PBS in a different storage buffer formulation.