

For Research Use Only

DSG1 Polyclonal antibody

Catalog Number: 24587-1-AP

12 Publications



Basic Information

Catalog Number: 24587-1-AP	GenBank Accession Number: BC153001	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1828	Recommended Dilutions: IHC: 1:500-1:2000 IF/ICC: 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q02413	
Isotype: IgG	Full Name: desmoglein 1	
Immunogen Catalog Number: AG20184	Calculated MW: 1049 aa, 114 kDa	

Applications

Tested Applications: IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	IHC : mouse skin tissue, human skin cancer tissue
Species Specificity: human, mouse	IF/ICC : A431 cells,
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	

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

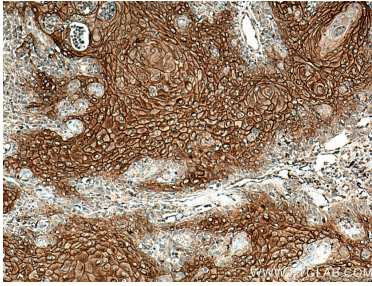
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

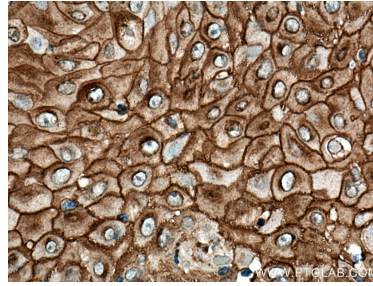
For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
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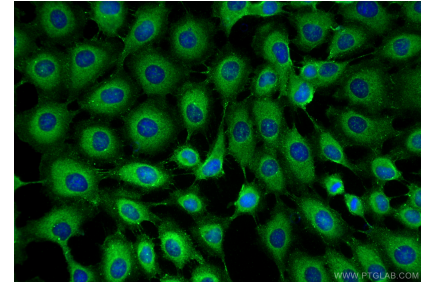
Selected Validation Data



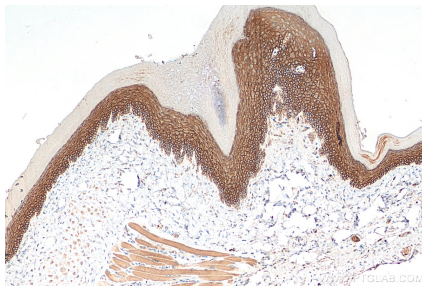
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 10x lens). heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



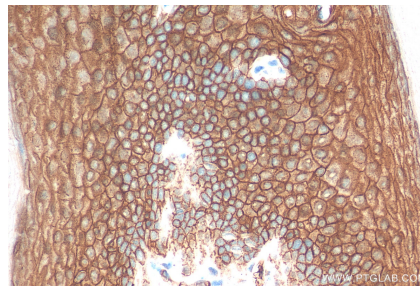
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 40x lens). heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



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).