

For Research Use Only

DSG1 Polyclonal antibody

Catalog Number: 24587-1-AP

11 Publications



Basic Information

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| 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

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| 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

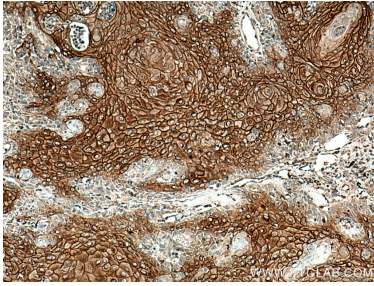
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

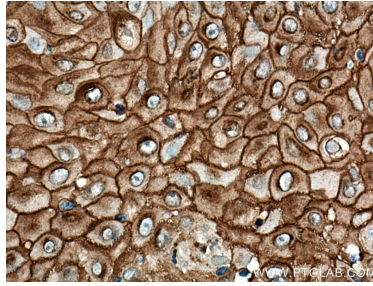
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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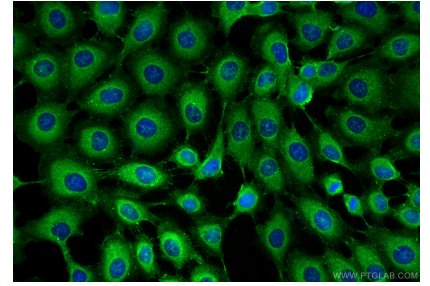
Selected Validation Data



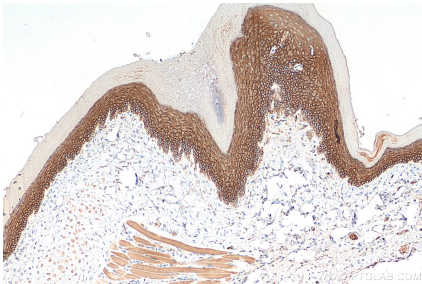
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 10x lens). heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



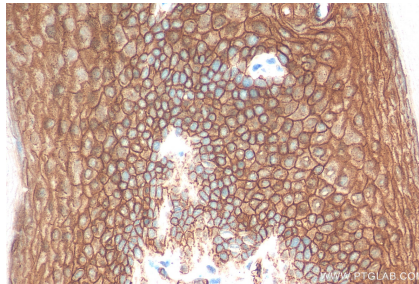
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 24587-1-AP (DSG1 antibody) at dilution of 1:400 (under 40x lens). heat mediated antigen retrieval with Tris-EDTA buffer(pH9).



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).