

**Anti-Desmoglein-1 (DSG1) Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13170****Specification**

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**Anti-Desmoglein-1 (DSG1) Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P, IF, FC          |
| Primary Accession | <a href="#">Q02413</a> |
| Other Accession   | <a href="#">2633</a>   |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Isotype           | Mouse / IgG1, kappa    |
| Calculated MW     | 113748                 |

**Anti-Desmoglein-1 (DSG1) Antibody - Additional Information****Gene ID** 1828**Other Names**

Cadherin family member 4; CDHF4; Desmoglein-1; Desmosomal glycoprotein 1; DG1; DSG1; EPKHE; EPKHIA; Pemphigus foliaceus antigen; PPKS1; SPPK1

**Application Note**

IHC-P~~N/A  
IF~~1:50~200  
FC~~1:10~50

**Format**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Anti-Desmoglein-1 (DSG1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-Desmoglein-1 (DSG1) Antibody - Protein Information****Name** DSG1**Synonyms** CDHF4**Function**

Component of intercellular desmosome junctions (PubMed:&lt;a href="http://www.uniprot.org/citations/34368962" target="\_blank"&gt;34368962&lt;/a&gt;). Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion

(PubMed:<a href="http://www.uniprot.org/citations/19717567" target="\_blank">19717567</a>).

**Cellular Location**

Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q7TSF1} Cell junction, desmosome. Cytoplasm. Nucleus

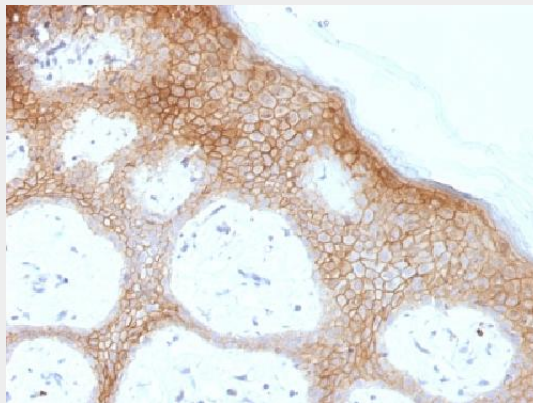
**Tissue Location**

Expressed in all suprabasal layers of the epidermis, with the highest expression seen in the granular layer (at protein level).

**Anti-Desmoglein-1 (DSG1) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Desmoglein-1 (DSG1) Antibody - Images**

Formalin-fixed, paraffin-embedded human Skin stained with Desmoglein-1 Monoclonal Antibody (DSG1/1733).

**Anti-Desmoglein-1 (DSG1) Antibody - Background**

Recognizes a protein of ~150kDa, identified as Desmoglein-1 (DSG1). Desmoglein-1 is a member of the desmosomal cadherin family. Desmosomes are intercellular adhering junctions that represent cell surface attachment sites for intermediate filament. Desmocollins and desmogleins are the main desmosomal transmembrane proteins. Desmogleins consist of Dsg1, Dsg2, Dsg3, and Dsg4 isoforms. Within the desmosome, the extracellular domain of desmoglein is essential for calcium dependent heterophilic binding to the desmocollins, whereas the intracellular domain is essential for binding to the desmosomal plaque protein, plakoglobin. Desmoglein 1 is synthesized exclusively in the suprabasal layers. Intact and functionally active desmoglein 1 is essential to epidermal integrity.