

**Desmoglein 2 Antibody**  
**Rabbit mAb**  
**Catalog # AP91954****Specification**

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**Desmoglein 2 Antibody - Product Information**

Application	WB, IHC, FC, ICC
Primary Accession	<a href="#">Q14126</a>
Reactivity	Rat
Clonality	Monoclonal

**Other Names**

desmoglein-2; DSG2; HDGC; ARVD10; CDHF5; CMD1BB;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	122294 Da

**Desmoglein 2 Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Desmoglein 2
Description	Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**Desmoglein 2 Antibody - Protein Information****Name** DSG2**Synonyms** CDHF5**Function**

A component of desmosome cell-cell junctions which are required for positive regulation of cellular adhesion (PubMed:<a href="http://www.uniprot.org/citations/38395410" target="\_blank">38395410</a>). Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. Required for proliferation and viability of embryonic stem cells in the blastocyst, thereby crucial for progression of post-implantation embryonic development (By similarity). Maintains pluripotency by regulating epithelial to mesenchymal

transition/mesenchymal to epithelial transition (EMT/MET) via interacting with and sequestering CTNNB1 to sites of cell-cell contact, thereby reducing translocation of CTNNB1 to the nucleus and subsequent transcription of CTNNB1/TCF-target genes (PubMed:<a href="http://www.uniprot.org/citations/29910125" target="\_blank">29910125</a>). Promotes pluripotency and the multi-lineage differentiation potential of hematopoietic stem cells (PubMed:<a href="http://www.uniprot.org/citations/27338829" target="\_blank">27338829</a>). Plays a role in endothelial cell sprouting and elongation via mediating the junctional-association of cortical actin fibers and CDH5 (PubMed:<a href="http://www.uniprot.org/citations/27338829" target="\_blank">27338829</a>). Plays a role in limiting inflammatory infiltration and the apoptotic response to injury in kidney tubular epithelial cells, potentially via its role in maintaining cell-cell adhesion and the epithelial barrier (PubMed:<a href="http://www.uniprot.org/citations/38395410" target="\_blank">38395410</a>).

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell junction, desmosome. Cytoplasm

#### **Tissue Location**

Expressed in undifferentiated pluripotent stem cells, expression decreases during differentiation (at protein level) (PubMed:29910125). Expressed in hematopoietic stem cells and circulating endothelial progenitor cells, expression decreases upon increasing cell lineage commitment (at protein level) (PubMed:27338829). Expressed on common myeloid progenitors, pro- myelocytes, pro-erythrocytes and B-cell lineage progenitors (at protein level). Expression in mature cell types in the bone marrow and mature leukocyte populations is absent (PubMed:27338829). Expressed by foreskin fibroblasts, expression peaks during the early stage of differentiation reprogramming (at protein level) (PubMed:29910125) Expressed by endothelial cells in both arterioles and venules in the cervix (at protein level) (PubMed:27338829). Expressed in kidney tubular epithelial cells (PubMed:38395410)

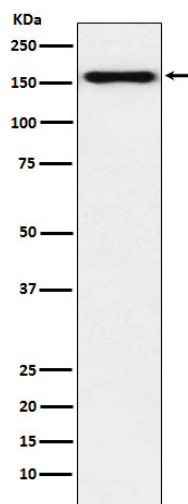
#### **Desmoglein 2 Antibody - Protocols**

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](#)

#### **Desmoglein 2 Antibody - Images**





Western blot analysis of Desmoglein 2 expression in HeLa cell lysate.