

**DSG3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1926a****Specification****DSG3 Antibody - Product Information**

Application	E, WB, FC, IHC
Primary Accession	<a href="#">P32926</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	107.5kDa KDa

**Description**

Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Desmoglein 3 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Currently, three desmoglein subfamily members have been identified and all are members of the cadherin cell adhesion molecule superfamily. These desmoglein gene family members are located in a cluster on chromosome 18. This protein has been identified as the autoantigen of the autoimmune skin blistering disease pemphigus vulgaris.

**Immunogen**

Purified recombinant fragment of human DSG3 (AA: 55-159) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide.

**DSG3 Antibody - Additional Information**

**Gene ID** 1830

**Other Names**

Desmoglein-3, 130 kDa pemphigus vulgaris antigen, PVA, Cadherin family member 6, DSG3, CDHF6

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
FC~~1/200 - 1/400  
IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DSG3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## DSG3 Antibody - Protein Information

**Name** DSG3 ([HGNC:3050](#))

**Synonyms** CDHF6

### Function

Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion.

### Cellular Location

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

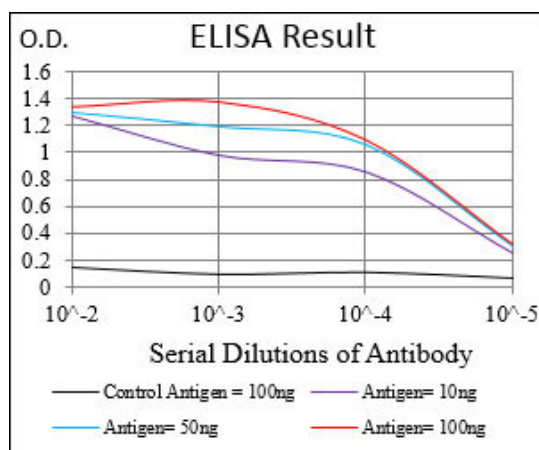
### Tissue Location

Epidermis, tongue, tonsil, esophagus and carcinomas. Expressed in skin and mucosa (at protein level) (PubMed:30528827).

## DSG3 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](#)



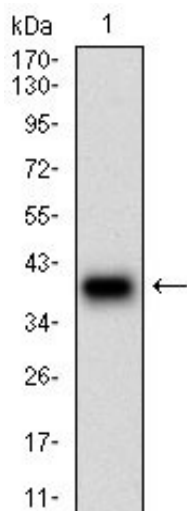


Figure 1: Western blot analysis using DSG3 mAb against human DSG3 (AA: 55-159) recombinant protein. (Expected MW is 37.5 kDa)

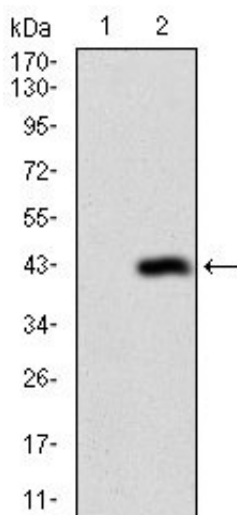


Figure 2: Western blot analysis using DSG3 mAb against HEK293 (1) and DSG3 (AA: 55-159)-hIgGFc transfected HEK293 (2) cell lysate.

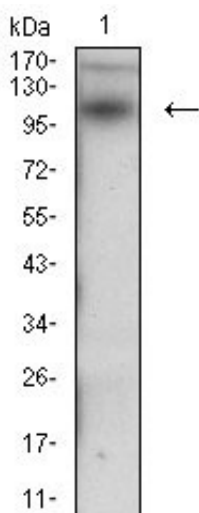


Figure 3: Western blot analysis using DSG3 mouse mAb against A431 cell lysate.

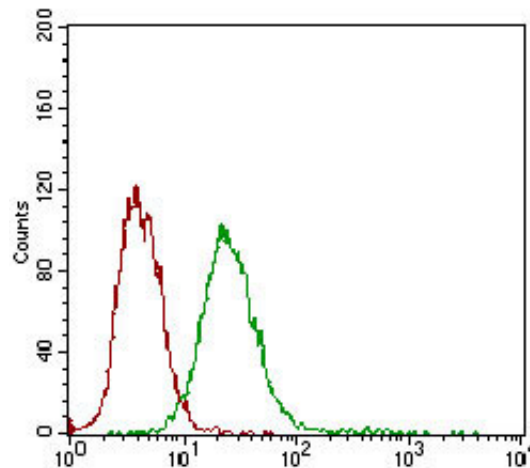


Figure 4: Flow cytometric analysis of A431 cells using DSG3 mouse mAb (green) and negative control (red).

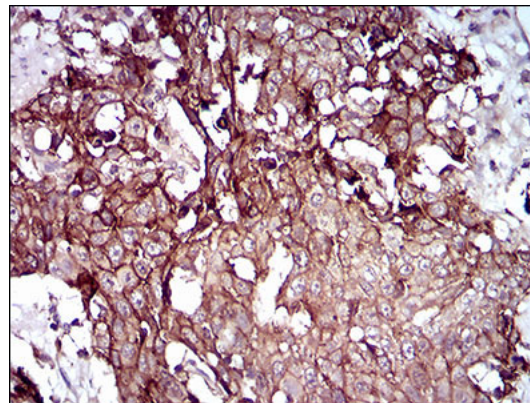


Figure 5: Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using DSG3 mouse mAb with DAB staining.

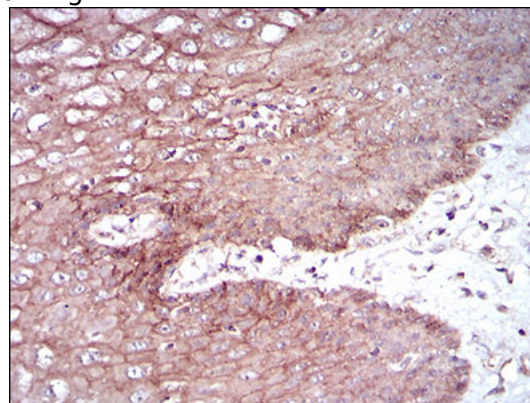


Figure 6: Immunohistochemical analysis of paraffin-embedded esophageal tissues using DSG3 mouse mAb with DAB staining.

### DSG3 Antibody - Background

The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome. ; ;

**DSG3 Antibody - References**

1. J Dermatol Sci. 2012 Feb;65(2):102-9.
2. Am J Pathol. 2009 May;174(5):1629-37.