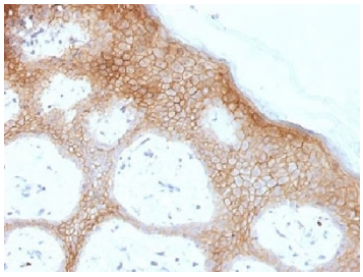
Desmoglein 1 Antibody Mouse Monoclonal / DSG1 [clone DSG1/1733] (V3260)

Catalog No.	Formulation	Size
V3260-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3260-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3260SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	DSG1/1733
Purity	Protein G affinity chromatography
UniProt	Q02413
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This Desmoglein 1 antibody is available for research use only.



Desmoglein 1 Antibody FFPE Human Skin IHC. Immunohistochemistry of Desmoglein 1 antibody in human skin tissue. Formalin-fixed, paraffin-embedded human skin demonstrates strong membranous staining in suprabasal keratinocytes, consistent with Desmoglein 1 localization at desmosomal cell-cell junctions within stratified squamous epithelium. Heat-induced epitope retrieval was performed by boiling tissue sections in 10mM Tris buffer with 1mM EDTA, pH 8, for 10-20 minutes prior to staining. The mouse monoclonal antibody clone DSG1/1733 was used as the primary antibody, showing distinct intercellular membrane staining throughout the epidermal layers.

Description

Desmoglein 1 (DSG1) 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.

Explore our DSG1 Antibody - Desmosomal Adhesion and Epithelial Integrity Marker (clone MSVA-544M) page for a broader view of Desmoglein-1 expression across human tissue microarrays and epithelial stratification patterns.

Application Notes

Optimal dilution of the Desmoglein 1 antibody should be determined by the researcher.

Immunogen

A recombinant protein corresponding to the intracellular domain of human Desmoglein 1 was used as the immunogen for the Desmoglein 1 antibody mouse monoclonal.

Storage

Store the Desmoglein 1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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