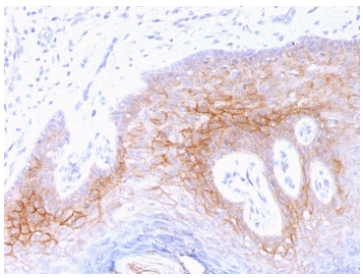
Desmocollin 2/3 Antibody [clone 7G6] (V3268)

Catalog No.	Formulation	Size
V3268-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3268-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3268SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

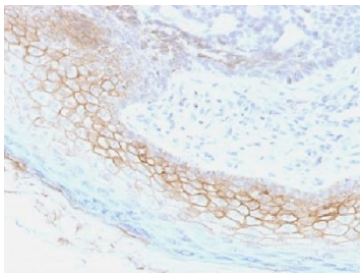
Citations (14)

Bulk quote request

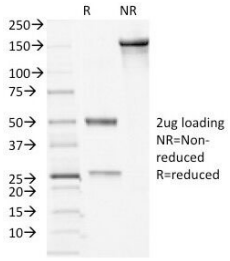
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	7G6
Purity	Protein G affinity chromatography
UniProt	Q02487
Localization	Cell surface
Applications	Flow cytometry: 0.5-1ug/million cells Immunofluorescence: 1-2ug/ml Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Desmocollin 2/3 antibody clone 7G6 is available for research use only.



Desmocollin 2/3 Antibody 7G6 Skin IHC. Immunohistochemistry testing of FFPE human skin with Desmocollin 2/3 antibody clone 7G6. Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min.



Desmocollin 2/3 Antibody 7G6 FFPE Human Skin Immunohistochemistry. IHC testing of FFPE human skin with Desmocollin 2/3 antibody (clone 7G6). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min.



SDS-PAGE analysis of purified, BSA-free Desmocollin 2/3 antibody (clone 7G6) as confirmation of integrity and purity.

Description

Desmocollin 2/3 antibody supports research into desmosomal cadherins, which are adhesion proteins essential for maintaining cohesion in epithelial and cardiac tissues. Desmocollins belong to the cadherin family and are critical components of desmosomes, specialized junctions that anchor intermediate filaments between adjacent cells. Desmocollin 2 and desmocollin 3 are both expressed widely in epithelial structures, where they provide resilience against mechanical stress and preserve tissue integrity.

Desmosomal proteins function together to form robust adhesion complexes. Desmocollins interact with desmogleins, plakoglobin, and desmoplakin to link cell membranes to the cytoskeleton, ensuring stable connections between cells. These complexes are particularly important in tissues subjected to constant mechanical strain, including skin and heart muscle. Genetic alterations in desmosomal proteins can result in blistering skin conditions and certain cardiomyopathies, demonstrating their physiological significance.

The Desmocollin 2/3 antibody clone 7G6 provides specific and reproducible recognition of both desmocollin 2 and 3. Clone 7G6 has been widely used in epithelial biology and dermatology research, helping to clarify the role of desmosomal proteins in healthy and diseased tissues. By detecting these cadherins, researchers can assess junctional organization, tissue architecture, and patterns of differentiation. Clone 7G6 is also valuable in pathology, where the presence or loss of desmocollin expression provides diagnostic information.

Desmosomes have functions beyond structural adhesion. Research has shown they influence signaling pathways that regulate cell proliferation, survival, and differentiation. Altered expression of desmocollins has been linked to cancer progression, where reduced adhesion contributes to invasion and metastasis. Studies using clone 7G6 have clarified how desmosomal proteins are disrupted in disease, making this antibody an important tool in both basic science and translational research.

NSJ Bioreagents offers this Desmocollin 2/3 antibody to support investigations into adhesion biology, epithelial integrity, and disease mechanisms. Alternate terms such as DSC2 antibody, DSC3 antibody, desmosomal cadherin antibody, and cadherin superfamily protein antibody are often used in scientific literature, reflecting the different ways researchers reference these essential adhesion molecules.

Explore our Desmocollin-2/3 Antibody - Desmosomal Adhesion and Epithelial Integrity Marker page for a broader overview of DSC2 and DSC3 expression across epithelial tissues and disease contexts.

Application Notes

Optimal dilution of the Desmocollin 2/3 antibody clone 7G6 should be determined by the researcher.

Immunogen

A recombinant protein corresponding to the extracellular domain of human Desmocollin 2 was used as the immunogen for the Desmocollin 2/3 antibody.

Storage

Store the Desmocollin 2/3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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