

Anti-Desmoglein 1/DSG1 antibody [27B2] ab12077

★★★★★ [2 Abreviews](#) [5 References](#) [2 Images](#)

Overview

Product name	Anti-Desmoglein 1/DSG1 antibody [27B2]
Description	Mouse monoclonal [27B2] to Desmoglein 1/DSG1
Host species	Mouse
Tested applications	Suitable for: IHC-Fr
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-Fr: Human normal skin.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	27B2
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab12077 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr	★★★★★ (1)	Use a concentration of 1 µg/ml.

Target

Function

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

Tissue specificity

Epidermis, tongue, tonsil and esophagus.

Involvement in disease

Defects in DSG1 are the cause of palmoplantar keratoderma striate type 1 (SPPK1) [MIM:148700]; also known as keratosis palmoplantaris striata I. SPPK1 is a dermatological disorder characterized by thickening of the skin on the palms and soles, and longitudinal hyperkeratotic lesions on the palms, running the length of each finger.

Sequence similarities

Contains 4 cadherin domains.

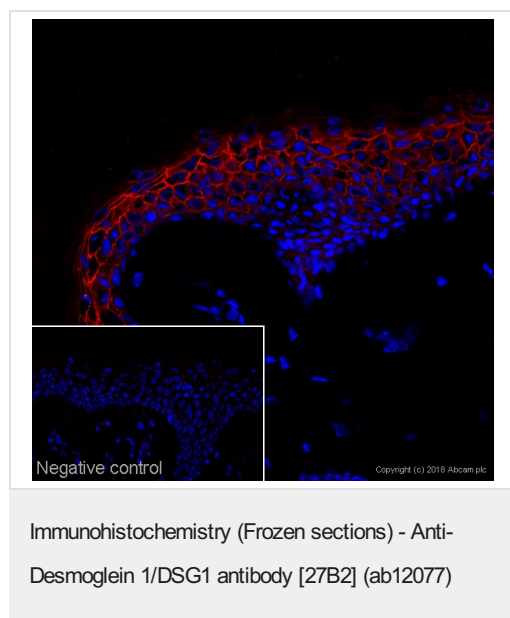
Domain

Calcium may be bound by the cadherin-like repeats.

Cellular localization

Cell membrane. Cell junction > desmosome.

Images

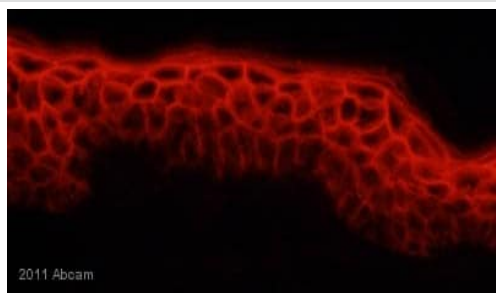


IHC image of ab12077 staining in 100% methanol fixed frozen tissue section of human skin.

Non-specific protein-protein interactions were blocked using TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 3% (w/v) BSA for 1 hour at room temperature. The section was then incubated with ab12077 (1 µg/ml dilution) in TBS containing 0.025% (v/v) Triton X-100 and 3% (w/v) BSA overnight at +4°C. The section was then incubated with **ab150119** (Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 647)) and DAPI for 1 hour at room temperature.

The DAPI only control (no antibody) inset shows no autofluorescence, demonstrating that any Alexa Fluor® 647 signal is derived directly from bound ab12077.

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antibody concentrations and incubation times.



Immunohistochemistry (Frozen sections) - Anti-Desmoglein 1/DSG1 antibody [27B2] (ab12077)

This image is courtesy of an anonymous Abreview.

ab12077 staining Desmoglein 1/DSG1 in human skin tissue by Immunohistochemistry (Frozen sections). Tissue was fixed in methanol, permeabilized using 0.4% Triton X-100, blocked with 10% serum for 30 minutes at 25°C, then incubated with ab12077 at 5 µg/ml for 16 hours at 4°C. The secondary used was an Alexa-Fluor 594 conjugated goat anti-mouse polyclonal (highly adsorbed), used at a 1/1000 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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