

# Product Datasheet

## Desmoglein-2 Antibody [Unconjugated] AF947-SP

Unit Size: 25 ug

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/AF947](http://www.novusbio.com/AF947)

Updated 10/20/2016 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/AF947](http://www.novusbio.com/reviews/destination/AF947)



**AF947-SP**

## Desmoglein-2 Antibody [Unconjugated]

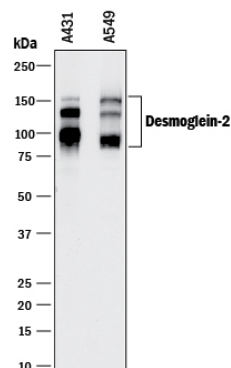
Product Information	
Unit Size	25 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute at 0.2 mg/mL in sterile PBS.
Isotype	IgG
Conjugate	Unconjugated
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. *Small pack size (SP) is supplied as a 0.2 µm filtered solution in PBS.

Product Description	
Host	Goat
Gene ID	1829
Gene Symbol	DSG2
Species	Human
Specificity/Sensitivity	Detects human Desmoglein-2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Desmoglein-1 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Desmoglein-2 Met1-Gly608 Accession # CAA81226
Notes	This product is produced by and ships from R&D Systems, Inc., a Bio-Techne brand.

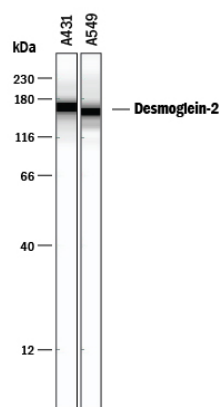
Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 0.25 ug/mL, Simple Western 5 ug/mL

## Images

Western blot shows lysates of A431 human epithelial carcinoma cell line and A549 human lung carcinoma cell line. PVDF membrane was probed with 0.25 µg/mL of Goat Anti-Human Desmoglein-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF947) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # [HAF017](#)). Specific bands were detected for Desmoglein-2 at approximately 90-160 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).



Simple Western lane view shows lysates of A431 human epithelial carcinoma cell line and A549 human lung carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Desmoglein-2 at approximately 159-164 kDa (as indicated) using 5 µg/mL of Goat Anti-Human Desmoglein-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF947) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # [HAF109](#)). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## Publications

Lu Z, Wang H, Zhang Y, Cao H, Li Z, Fender P, Lieber A Penton-dodecahedral particles trigger opening of intercellular junctions and facilitate viral spread during adenovirus serotype 3 infection of epithelial cells. *PLoS Pathog*, 2013;9(10):e1003718. 2013 [PMID: 24204268] (ICC, , Human)

van Rensburg , R, Beyer , I, Yao , X-Y, Wang , H, Denisenko , O, Li , Z-Y, Russell , D W, Miller , D G, Gregory , P, Holmes , M, Bomsztyk , K, Lieber , A Chromatin structure of two genomic sites for targeted transgene integration in induced pluripotent stem cells and hematopoietic stem cells. *Gene Ther*, 2013;20(2):201-14. 2013 [PMID: 22436965] (ICC, , Human)

Wang H, Li Z, Yumul R, Lara S, Hemminki A, Fender P, Lieber A Multimerization of adenovirus serotype 3 fiber knob domains is required for efficient binding of virus to desmoglein 2 and subsequent opening of epithelial junctions. *J. Virol.*, 2011;85(13):6390-402. 2011 [PMID: 21525338] (ICC, , Human)

Wang H, Beyer I, Persson J, Song H, Li Z, Richter M, Cao H, van Rensburg R, Yao X, Hudkins K, Yumul R, Zhang XB, Yu M, Fender P, Hemminki A, Lieber A A new human DSG2-transgenic mouse model for studying the tropism and pathology of human adenoviruses. *J. Virol.*, 2012;86(11):6286-302. 2012 [PMID: 22457526] (IHC Paraffin-embedded, , Human)



### **Novus Biologicals USA**

8100 Southpark Way, A-8  
Littleton, CO 80120  
USA

Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
novus@novusbio.com

### **Novus Biologicals Canada**

461 North Service Road West, Unit B37  
Oakville, ON L6M 2V5  
Canada

Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada@novusbio.com

### **Novus Biologicals Europe**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: technical@novusbio.com  
Orders: orders@novusbio.com  
General: novus@novusbio.com

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/AF947](http://www.novusbio.com/reviews/submit/AF947)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

