



# Desmoglein-3 (Squamous Cell Marker); Clone 5G11 (Concentrate)

<b>Availability/Contents:</b>	<u>Item #</u>	<u>Volume</u>
	RA0571-C.1	0.1 ml
	RA0571-C.5	0.5 ml
	RA0571-C1	1 ml

**Description:**

Species:	Mouse.
Immunogen:	Recombinant human DSG3 extracellular protein fragment (exact sequence is proprietary).
Clone:	5G11.
Isotype:	IgG1, kappa.
Entrez Gene ID:	1830.
Hu Chromosome Loc.:	18q12.1.
Synonyms:	130kDa pemphigus vulgaris antigen (PVA); Balding (Bal); Cadherin family member 6 (CDHF6); Desmoglein-3 (DSG3).
Mol. Weight of Antigen:	130kDa.
Format:	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	Recognizes a protein of 130kDa, identified as Desmoglein-3 (DSG3). This monoclonal antibody is highly specific to Desmoglein-3 and does not cross-react with other members of the desmoglein-family.
Background:	DSG3 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Currently, three desmoglein subfamily members are identified and all are members of the cadherin cell adhesion molecule superfamily.
Species Reactivity:	Reacts with human. Others not known.
Positive Control:	A431 cells. Lung squamous cell carcinoma.
Cellular Localization:	Cell surface.
Titer/ Working Dilution:	Immunohistochemistry (Formalin-Fixed): 1-2 µg/ml Flow Cytometry: 0.5-1 µg/million cells Immunofluorescence: 1-2 µg/ml Western Blot: 0.5-1 µg/ml
Microbiological State:	This product is not sterile.

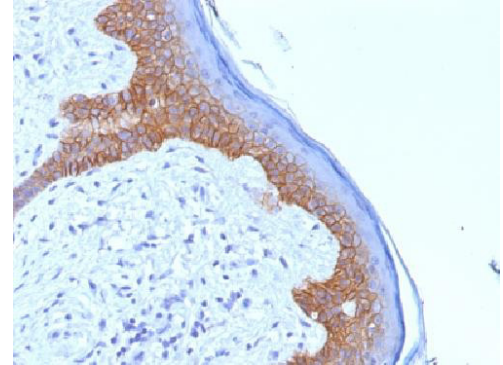
Storage: 2° C  8° C



ScyTek Laboratories, Inc.  
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**Uses/Limitations:** Not to be taken internally.  
 For Research Use Only.  
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.  
 Do not use if reagent becomes cloudy.  
 Do not use past expiration date.  
 Non-Sterile.



FFPE human skin stained with Desmoglein-3; Clone 5G11.

**Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)**

**Procedure:**

1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Tris-EDTA HIER Solution (10x) pH 9.0 (ScyTek catalog# TES500) for 5-10 minutes at >95°C followed by cooling to room temperature for 20 minutes.
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity and to provide contrast with melanin pigment, we recommend the UltraTek Alk-Phos Anti-Polyvalent Lab Pack with Permanent Red Kit (For Alkaline Phosphatase). (ScyTek catalog# UAP125 & PRD-60 see IFU for instructions).

**Precautions:**

Contains Sodium Azide as a preservative (0.09% w/v).  
 Do not pipette by mouth.  
 Avoid contact of reagents and specimens with skin and mucous membranes.  
 Avoid microbial contamination of reagents or increased nonspecific staining may occur.  
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.


**References:**

1. Mahoney, MG; Hu, Y; Brennan, D; Bazzi, H; Christiano, AM; Wahl, JK III. Delineation of diversified desmoglein distribution in stratified squamous epithelia: implications in diseases. *Exp Dermatol.* 2006, 15(2):101-9.
2. Wahl JK III. Generation of monoclonal antibodies specific for desmoglein family members. *Hybrid Hybridomics* 2002, 21(1):37-44.

**Warranty:**

No products or "Instructions For Use (IFU)" are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

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