

# IHC*easy* DSG1 Ready-To-Use IHC Kit

Catalog Number: **KHC0259**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Polyclonal

**Secondary antibody type:**  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

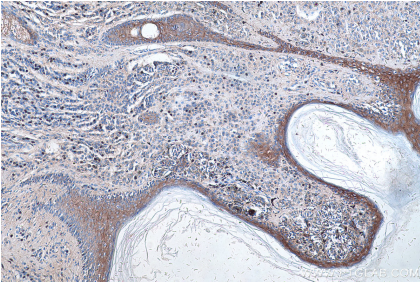
## Background

Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Desmosomal cadherins, consisting of four desmogleins (DSG1-4) and three desmocollins (DSC1-3) in humans, mediate adhesion through calcium-dependent homophilic/heterophilic interactions. DSG1 is a single-pass transmembrane glycoprotein that is highly expressed in the epidermis and localized primarily within the suprabasal epithelial layers. DSG1 mediates intercellular adhesion and has a crucial role in maintaining epidermal integrity and barrier function. It is also involved in epithelial cell differentiation. Mutations in the DSG1 gene can cause the autosomal dominant disorder striate palmoplantar keratoderma and a syndrome featuring severe dermatitis, multiple allergies and metabolic wasting (SAM syndrome).

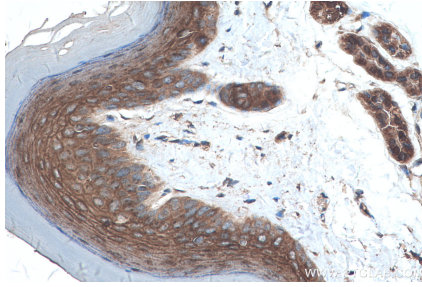
## Synonyms

Cadherin family member 4, CDHF4, desmoglein 1, Desmosomal glycoprotein 1, DG1, DGI, DSG, DSG1, Pemphigus foliaceus antigen, PPKS1, SPPK1

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using KHC0259 (DSG1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using KHC0259 (DSG1 IHC Kit).