

For Research Use Only

# DSG2 Recombinant monoclonal antibody

Catalog Number: 87426-1-RR



## Basic Information

<b>Catalog Number:</b> 87426-1-RR	<b>GenBank Accession Number:</b> NM_001943.4	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 1829	<b>CloneNo.:</b> 251405G8
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q14126	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
<b>Immunogen Catalog Number:</b> EG6509	<b>Full Name:</b> desmoglein 2	
	<b>Calculated MW:</b> 122 kDa	
	<b>Observed MW:</b> 150 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> A549 cells, HEK-293 cells, HeLa cells, HepG2 cells, K-562 cells, A431 cells
	<b>IF/ICC :</b> A431 cells, MCF-7 cells

## Background Information

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. DSG2 is a single-pass transmembrane glycoprotein that is widely expressed in epithelial and non-epithelial tissues, such as the intestine, epidermis, testis, and heart (PMID:21715983). Defects in DSG2 are the cause of familial arrhythmogenic right ventricular dysplasia type 10 (ARVD10), and genetic variations in DSG2 are the cause of susceptibility to cardiomyopathy dilated type 1BB (CMD1BB).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

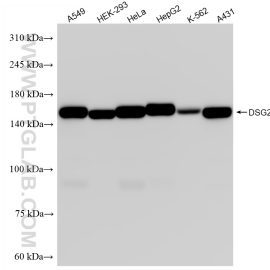
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

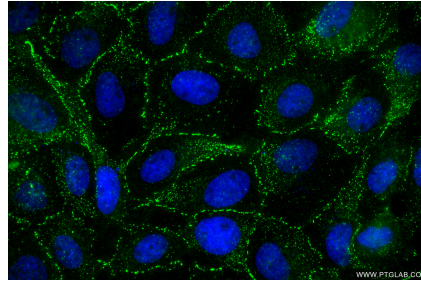
W: [ptgcn.com](http://ptgcn.com)

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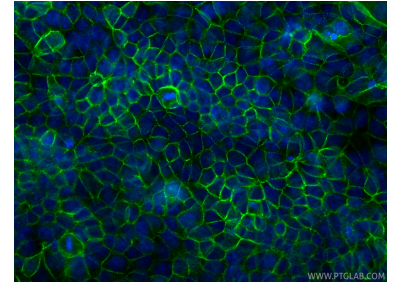
## Selected Validation Data



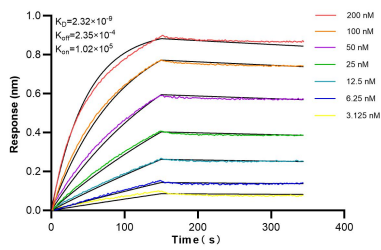
Various lysates were subjected to SDS PAGE followed by western blot with 87426-1-RR (DSG2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using DSG2 antibody (87426-1-RR, Clone: 251405G8) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using DSG2 antibody (87426-1-RR, Clone: 251405G8) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biacore BLI kinetic assays of 87426-1-RR against Human DSG2 were performed. The affinity constant is 2.32 nM.