

## Desmoglein-2 (DSG2) Antibody

Mouse Monoclonal Antibody [Clone [8E5]]

Catalog No	Format	Size
1829-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1829-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1829-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

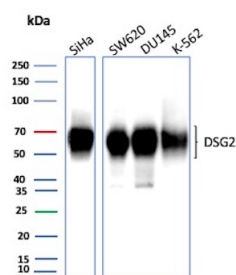
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

### Product Details

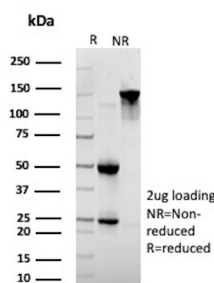
<b>Clone</b>	[8E5]
<b>Gene Name</b>	DSG2
<b>Immunogen</b>	Recombinant human DSG2 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	59-165kDa
<b>Cellular Localization</b>	Cell junction, Cell membrane, Desmosome
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	A431, HepG2 or K-562 cells. Heart or Colon. SiHa, SW620 or DU145

*\*Optimal dilution for a specific application should be determined.*

### Product Images for Desmoglein-2 (DSG2) Antibody



Western Blot Analysis of SiHa, SW620, DU145 and K-562 cell lysates using Desmoglein-2 Mouse Monoclonal Antibody (8E5).



SDS-PAGE Analysis of Purified Desmoglein 2 Mouse Monoclonal Antibody (8E5). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

Recognizes a protein of 165kDa, identified as Desmoglein-2 (DSG2). This monoclonal antibody recognizes the extracellular domain of human desmoglein-2. Desmoglein-2 is a member of the desmosomal cadherin family. Desmosomes are intercellular adhering junctions that represent cell surface attachment sites for intermediate filament. Desmocollins and desmogleins are the main desmosomal transmembrane proteins. Desmogleins consist of Dsg1, Dsg2, Dsg3, and Dsg4 isoforms. Within the desmosome, the extracellular domain of desmoglein is essential for calcium dependent heterophilic binding to the desmocollins, whereas the intracellular domain is essential for binding to the desmosomal plaque protein, plakoglobin. Human Desmoglein-2 is a type I transmembrane glycoprotein of 1117 amino acid (aa) residues with a 23 aa signal peptide and a 25 aa propeptide. It differs from other classic cadherins by having four instead of five cadherin repeat domains in its extracellular region, and a much larger cytoplasmic region containing five desmoglein repeat domains which share homology with the cadherin repeats. Instead of having the HAV adhesion motif found in type I cadherins, desmogleins have R/YAL as the adhesion motif on its amino-terminal cadherin repeat. The cytoplasmic tails of desmogleins interact with desmoplakins, plakoglobin and plakophilins. In turn, these proteins link the desmogleins with the intermediate filaments. Desmoglein-2 has been shown to be important in establishing cell-cell adhesion and function in epithelial cells. Desmoglein2 was originally identified in colon carcinoma and colon, and was named HDGC (human desmoglein colon).

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Apoptosis, Autophagy, Cardiovascular, Developmental Biology, Signal Transduction