Desmoglein-3 (Squamous Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone DSG3/2840]

Catalog No	Format	Size
1830-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1830-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1830-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

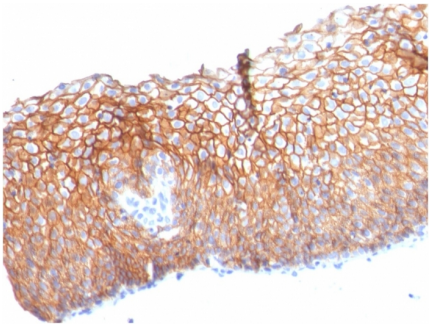
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

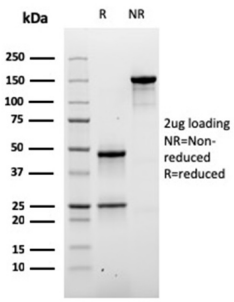
Clone	DSG3/2840
Gene Name	DSG3
Immunogen	Recombinant fragment (around aa 379-491) human DSG3 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	130kDa
Cellular Localization	Cell junction, Cell membrane, Desmosome
Species Reactivity	Human
Positive Control	A431 cells. Skin or Lung Squamous Cell Carcinoma (SCC).

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

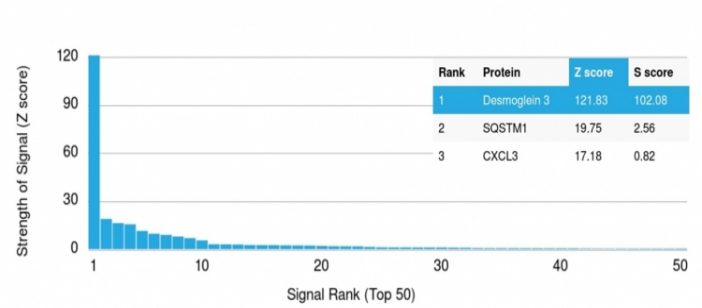
Product Images for Desmoglein-3 (Squamous Cell Marker) Antibody



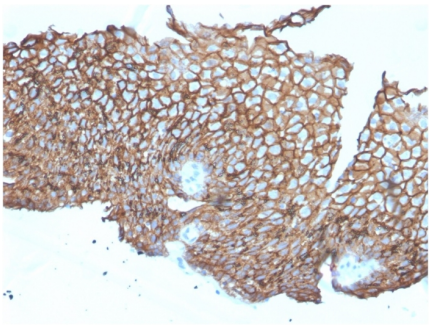
Formalin-fixed, paraffin-embedded human Esophageal Carcinoma stained with Desmoglein-3 Mouse Monoclonal Antibody (DSG3/2840).



SDS-PAGE Analysis of Purified Desmoglein-3 Mouse Monoclonal Antibody (DSG3/2840). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Desmoglein-3 Mouse Monoclonal Antibody (DSG3/2840) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human Esophageal Carcinoma stainedwith Desmoglein-3 Mouse Monoclonal Antibody (DSG3/2840).

Specificity & Comments

Recognizes a protein of 130kDa, identified as Desmoglein-3 (DSG3). This MAb is highly specific to Desmoglein-3 and does not cross-react with other members of the Desmoglein-family. DSG3 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Research has shown that DSG3 has a very high sensitivity (80%) and specificity (100%) in recognizing squamous cell carcinoma (SqCC). Therefore, DSG3 is considered a very important marker for lung SqCC and can be a useful ancillary marker to separate SqCC from other subtypes of lung cancer. Moreover, studies have shown that DSG3 expression in lung SqCC may indicate a poor prognosis.

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

Developmental Biology

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.