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anti-Desmoglein 3 antibody (AA 379-491)





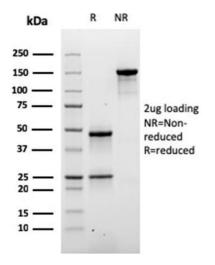
Overview

Quantity:	100 μg
Target:	Desmoglein 3 (DSG3)
Binding Specificity:	AA 379-491
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Desmoglein 3 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)
Product Details	
Immunogen:	Recombinant fragment (around aa 379-491) human DSG3 protein (exact sequence is
	proprietary)
Clone:	DSG3-2840
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 130 kDa, 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

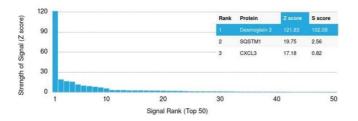
Product Details

1 Toddet Details	
	SqCC may indicate a poor prognosis.
Purification:	Purified by Protein A/G
Target Details	
Target:	Desmoglein 3 (DSG3)
Alternative Name:	DSG3 (DSG3 Products)
Molecular Weight:	130kDa
Gene ID:	1830
UniProt:	P32926
Application Details	
Application Notes:	Positive Control: A431 cells. Skin or Lung Squamous Cell Carcinoma (SCC).
	Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at
	RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate
	buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a
	specific application should be determined.
Restrictions:	For Research Use only
Handling	
Concentration:	200 μg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	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.
Expiry Date:	24 months



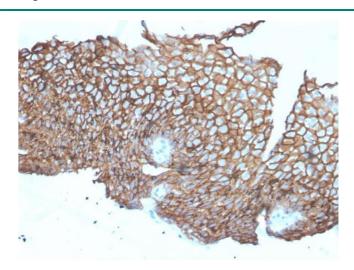
SDS-PAGE

Image 1. SDS-PAGE Analysis of Purified Desmoglein-3 Mouse Monoclonal Antibody (DSG3/2840). Confirmation of Purity and Integrity of Antibody



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using 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.



Immunohistochemistry

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

Please check the product details page for more images. Overall 4 images are available for ABIN6939268.