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Datasheet for ABIN6939272

anti-Desmoglein 3 antibody (AA 379-491)

2 Images

Overview

Quantity:	100 µg
Target:	Desmoglein 3 (DSG3)
Binding Specificity:	AA 379-491
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Coating (Coat)

Product Details

Immunogen:	Recombinant fragment (around aa 379-491) human DSG3 protein (exact sequence is proprietary)
Clone:	DSG3-2796
Isotype:	IgG2b 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 SqCC may indicate a poor prognosis.

Product Details

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: ELISA (For coating, order Ab without BSA), Western Blot (1-2 μ g/mL)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 μ g/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

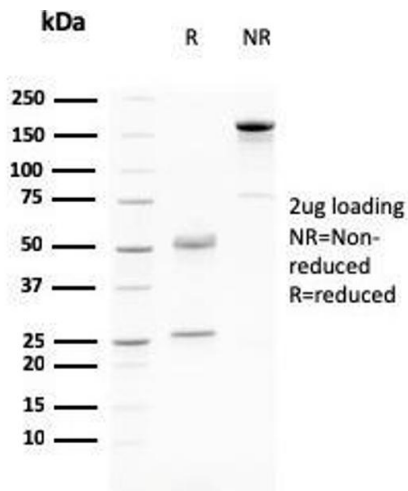
Preservative: Sodium azide

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

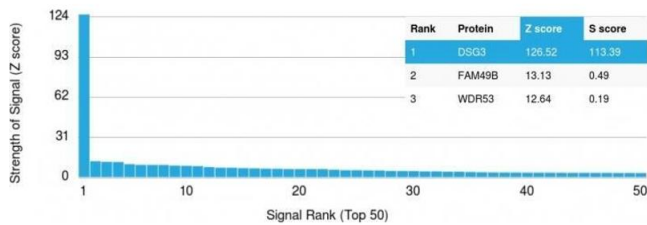
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Desmoglein-3 Mouse Monoclonal Antibody (DSG3/2796). 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 (DSG3/2796) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.