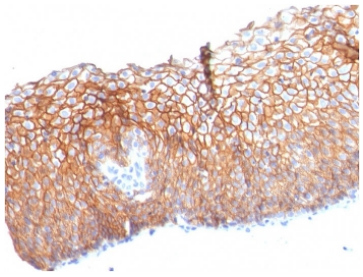
DSG3 Antibody - Microarray Validated | Desmoglein 3 [clone DSG3/2840] (V7721)

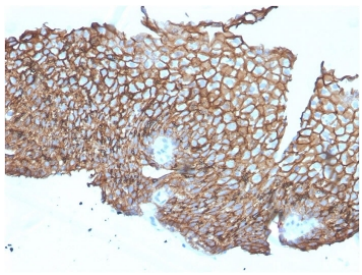
Catalog No.	Formulation	Size
V7721-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7721-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7721SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

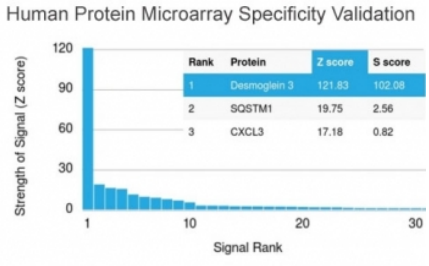
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	DSG3/2840
Purity	Protein G affinity chromatography
UniProt	P32926
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This DSG3 antibody is available for research use only.



Immunohistochemistry of DSG3 Antibody - Microarray Validated clone DSG3/2840 in human esophageal carcinoma tissue. Formalin-fixed, paraffin-embedded esophageal carcinoma demonstrates strong membranous staining of tumor epithelial cells, consistent with Desmoglein 3 localization at desmosomal cell-cell junctions in stratified squamous epithelium-derived malignancy. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes followed by cooling prior to staining. The microarray validated monoclonal antibody clone DSG3/2840 was used as the primary antibody.

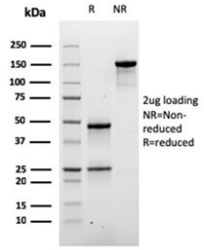


IHC staining of FFPE human esophageal carcinoma with DSG3 antibody-microarray validated clone DSG3/2840. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Human protein microarray specificity validation of DSG3 Antibody - Microarray Validated clone DSG3/2840. Analysis was performed using the HuProt(TM) microarray containing more than 19,000 full-length human proteins. The antibody demonstrates the highest signal intensity for Desmoglein 3, ranking first among all proteins tested with a strong Z-score and substantial separation from the next highest ranked proteins, supporting high target specificity of clone DSG3/2840.

Z- and S-score explanation: The Z-score represents the strength of signal generated when the antibody, together with a fluorescently labeled anti-IgG secondary antibody, binds to a specific protein on the HuProt(TM) array. Z-scores are expressed in units of standard deviations above the mean signal of all proteins on the array. Proteins are ranked in descending order according to Z-score. The S-score represents the difference in Z-scores between adjacent ranked proteins and reflects the relative specificity of the antibody for its intended target.



SDS-PAGE analysis of purified, BSA-free DSG3 antibody-microarray validated clone DSG3/2840 as confirmation of integrity and purity.

Description

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.

Explore our Desmoglein 3 Antibody - Human Protein Microarray Validated Clone DSG3/2838 page for a broader view of DSG3 expression in stratified epithelia with supporting microarray specificity validation data.

Application Notes

Optimal dilution of the DSG3 antibody-microarray validated clone DSG3/2840 should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 379-491) was used as the immunogen for the DSG3 antibody-microarray validated clone DSG3/2840.

Storage

Store the Desmoglein 3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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