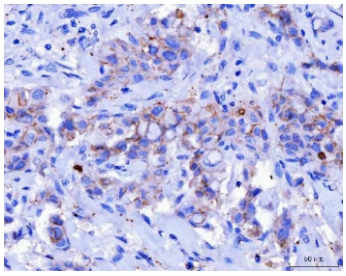
DSG2 Antibody / Desmoglein 2 [clone 2B4D1] (RQ7648)

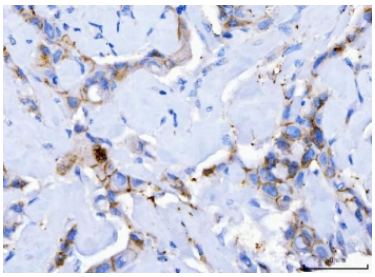
Catalog No.	Formulation	Size
RQ7648	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

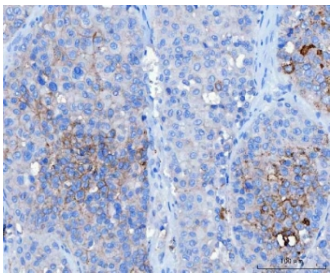
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	2B4D1
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q14126
Localization	Cytoplasm, membrane (cell junctions)
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This DSG2 antibody is available for research use only.



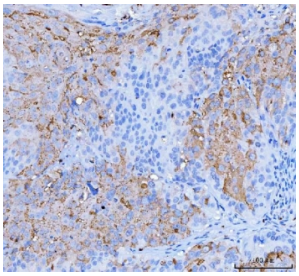
Desmoglein 2 Antibody Breast Cancer IHC. Immunohistochemistry analysis of FFPE human breast cancer tissue stained with DSG2 antibody detecting Desmoglein 2. Tumor epithelial cells show membranous and cytoplasmic staining with focal accentuation at cell-cell borders, consistent with DSG2 localization in desmosomal adhesion complexes that maintain epithelial cohesion. Surrounding stromal elements display minimal staining. Hematoxylin counterstain highlights nuclei in blue. HIER: boil tissue sections in pH 8 EDTA for 20 min and allow to cool before testing.



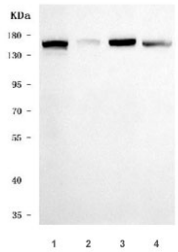
Desmoglein 2 Antibody Breast Cancer IHC. Immunohistochemistry analysis of FFPE human breast cancer tissue stained with DSG2 antibody detecting Desmoglein 2. Tumor epithelial cells show moderate membranous and cytoplasmic staining with focal junctional accentuation at cell-cell borders, consistent with DSG2 localization in desmosomal adhesion complexes that contribute to epithelial cohesion. Staining is heterogeneous across tumor regions, while surrounding stromal components display minimal signal. Hematoxylin counterstain highlights nuclei in blue. HIER: boil tissue sections in pH 8 EDTA for 20 min and allow to cool before testing.



Desmoglein 2 Antibody Hepatocellular Carcinoma IHC. Immunohistochemistry analysis of FFPE human hepatocellular carcinoma tissue stained with DSG2 antibody detecting Desmoglein 2. Tumor cells show membranous and cytoplasmic staining with focal accentuation at cell-cell borders, consistent with DSG2 localization in desmosomal adhesion complexes that support intercellular adhesion. Staining appears heterogeneous across tumor regions, while adjacent non-tumor areas show reduced signal. Hematoxylin counterstain highlights nuclei in blue. HIER: boil tissue sections in pH 8 EDTA for 20 min and allow to cool before testing.



Desmoglein 2 Antibody Laryngeal Squamous Cell Carcinoma IHC. Immunohistochemistry analysis of FFPE human laryngeal squamous cell carcinoma tissue stained with DSG2 antibody detecting Desmoglein 2. Tumor epithelial cells show membranous and cytoplasmic staining with prominent accentuation at cell-cell borders, consistent with DSG2 localization in desmosomal adhesion complexes that maintain epithelial cohesion. The staining highlights squamous tumor cell clusters, while surrounding stromal regions show reduced signal. Hematoxylin counterstain highlights nuclei in blue. HIER: boil tissue sections in pH 8 EDTA for 20 min and allow to cool before testing.



Desmoglein 2 Antibody Multi-Cell Line WB. Western blot analysis of human cell lysates using DSG2 antibody detecting Desmoglein 2. Lane 1: HeLa, Lane 2: K562, Lane 3: HepG2, Lane 4: A549. A band is detected at approximately 130-160 kDa, consistent with the predicted molecular weight of Desmoglein 2, with variation reflecting glycosylation of this transmembrane desmosomal cadherin. Stronger signal in epithelial-derived cell lines such as HeLa, HepG2, and A549 aligns with DSG2 expression in cells forming desmosomal adhesion complexes that support intercellular junction integrity.

Description

DSG2 Antibody detects Desmoglein-2, a protein that in humans is encoded by the DSG2 gene. These desmoglein gene family members are located in a cluster on chromosome 18. This second family member is expressed in colon, colon carcinoma, and other simple and stratified epithelial-derived cell lines. Mutations in DSG2 display a high degree of penetrance. Disease expression was of variable severity with LV involvement a prominent feature. The low prevalence of classical ECG changes highlights the need to expand current diagnostic criteria to take account of LV disease, childhood disease expression, and incomplete penetrance.

Explore our Desmoglein 2 Antibody - Desmosomal Adhesion and Epithelial Integrity Marker page for a broader view of DSG2 expression in epithelial tissues and desmosome-associated biology.

Application Notes

Optimal dilution of the DSG2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids L24-E1020) was used as the immunogen for the DSG2 antibody.

Storage

After reconstitution, the DSG2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.