

## Basic Information

Product Name	Anti-DSG2 Antibody (Clone#2B4D1)	
Gene Name	DSG2	
Source	Mouse	
Clonality	Monoclonal	
Isotype	IgG1	
Species Reactivity	human	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human Desmoglein 2/DSG2 recombinant protein (Position: L24-E1020).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	160 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

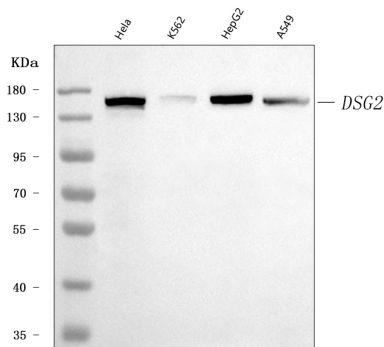
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

Desmoglein-2 is 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.

## Selected Validation Data



Western blot analysis of DSG2 using anti-DSG2 antibody (M02035-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

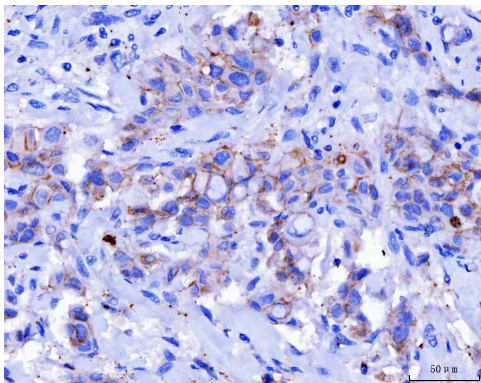
Lane 1: human Hela whole cell lysates,

Lane 2: human K562 whole cell lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: human A549 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-DSG2 antigen affinity purified monoclonal antibody (M02035-2) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for DSG2 at approximately 160 kDa. The expected band size for DSG2 is at 122 kDa.



IHC analysis of DSG2 using anti-DSG2 antibody (M02035-2).

DSG2 was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with mouse anti-DSG2 Antibody (M02035-2) at a dilution of 1:200 and developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB (Catalog # AR1027) as the chromogen.