

Desmoglein-3 (Clone 5G11)

Mouse Monoclonal Antibody

Specificity: Human. Others-not tested

Immunogen: A-431 cell shavings of human origin

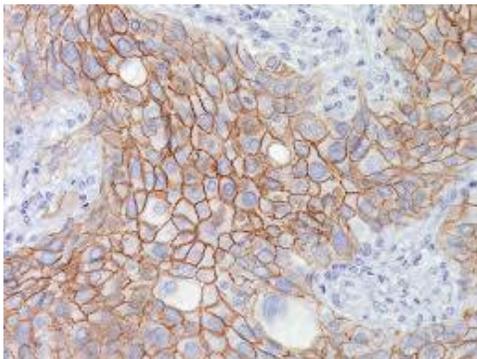
Ig Class: IgG1/ κ

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100; *Positive Control:* squamous cell carcinoma. *Cellular Localization:* membrane. *Intended Use:* In vitro diagnosis (IVD).

Description: Desmoglein-3 (DSG3) is a calcium binding membrane protein that is localized desmosome cellular junctions and interacts with plaque proteins and intermediate filaments at cell-cell adhesion points. Desmosomes are cell-cell junctions between epithelial, myocardial and other cells types. In human keratinocytes, Desmoglein-3 (DSG3) is raft associated and disruption of rafts prevents desmosome assembly. DSG3 is one of four sister proteins in the desmoglein family. DSG3 is also the autoantigen for pemphigus vulgaris (PV) a lethal skin disease that is a result of autoantibodies against DSG3. DSG3 is over-expressed in lung squamous cell carcinomas (SQCC) but had very limited expression in both adenocarcinomas and non-neoplastic lungs. Using immunohistochemistry, the sensitivity and specificity of DSG3 for lung cancers were 98% and 99%, respectively, which is similar to that of p40. Therefore, DSG3 can be a useful ancillary marker to separate SQCC from other subtypes of lung cancer.

Supplied As: Purified antibody in 0.2% BSA and 15mM sodium azide.



References:

1. Huang W, et al. *Hum Pathol.* 2013; 44:1989-97.
2. Tacha D, et al. *Appl Immunohistochem Mol Morphol.* 2012; 20:201-7.

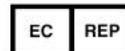
Formalin-fixed, paraffin-embedded human squamous cell carcinoma stained with anti-desmoglein-3 monoclonal antibody using peroxidase-conjugate and DAB chromogen. Note membranous staining of tumor cells

Cat. #Z2279 (1.0 ml)

ZETA Corporation
65 N 1st Ave, Ste 202C
Arcadia, CA 91006, USA
Tel: (626) 355-2053
<http://www.zeta-corp.com>



Zeta Corporation



Emergo Europe B.V.
Prinsessegracht 20
2514 AP The Hague
The Netherlands
Tel: +31 70 345 8570