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DATA SHEET

Rabbit Anti-Desmoglein-3 [EP306]: RM0366RTU7

Intended Use: For Research Use Only

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.

Specifications

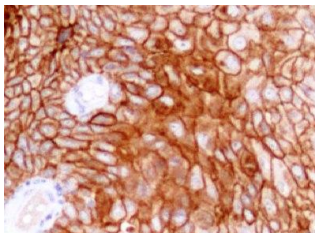
Clone:	EP306
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Localization:	Membrane
Formulation:	Antibody in PBS pH7.5, containing 0.2% BSA and <0.1% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
Desmoglein-3 Prediluted	RM0366RTU7	7 ml

IHC Procedure

Positive Control:	Squamous cell carcinoma
Concentrated Dilution:	Prediluted
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human SqCC stained with anti-Desmoglein-3 using DAB

References:

1. Simultaneous immunolocalization of desmoglein 3 and IgG4 in oral pemphigus vulgaris: IgG4 predominant autoantibodies in its pathogenesis. Abé T, et al. J Oral Pathol Med. Nov;44(10):850-6, 2015.
2. Desmoglein-3 and Napsin A double stain, a useful immunohistochemical marker for differentiation of lung squamous cell carcinoma and adenocarcinoma from other subtypes. Agackiran Y, et al. Appl Immunohistochem Mol Morphol. Jul;20(4):350-5, 2012.
3. IgG autoantibodies directed against desmoglein 3 cause dissociation of keratinocytes in canine pemphigus vulgaris and paraneoplastic pemphigus. Nishifuji K, et al. Vet Immunol Immunopathol. Jun 15;117(3-4):209-21, 2007.

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