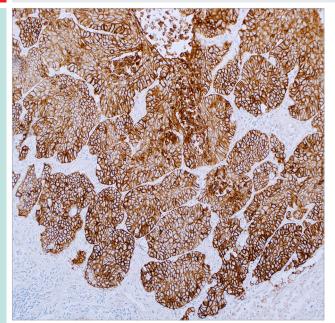
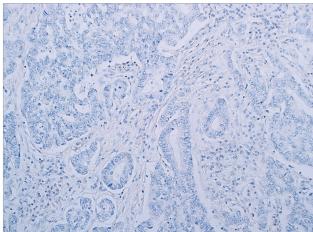
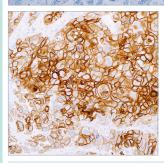
Spotlight on:

Desmoglein 3 (EP306)







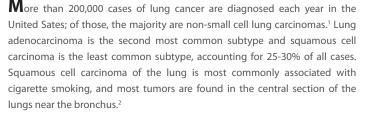


Top: Squamous cell carcinoma of the lung shows strong, diffuse staining with desmoglein 3.

 $\textbf{Center:} \ Lung\ a deno carcinoma\ is\ negative\ for\ desmogle in\ 3.$

Bottom-left: Bladder squamous cell carcinoma is strongly positive for desmoglein 3.

Bottom-right: Transitional cell carcinoma is negative for desmoglein 3.



Distinguishing subtypes of lung cancer (i.e. lung adenocarcinoma versus lung squamous carcinoma) is very important for patient care. Commonly, an immunohistochemical panel including TTF-1, napsin A, cytokeratin 5/6, and p63 or p40, may be involved to make this distinction. However, each antibody has its limitations of either specificity or sensitivity for its respective subtype of lung cancer.³ Desmoglein 3 is a novel marker for the identification of squamous cell carcinoma of the lung. Desmoglein 3 is expressed in pulmonary squamous cell carcinomas but has limited-to-no expression in both adenocarcinomas and non-neoplastic lungs.⁴ Because of desmoglein 3's high sensitivity and specificity for lung squamous cell carcinomas versus lung adenocarcinomas,⁵ it has been recommended as a valuable addition to any differential lung panel.

Benefits of Desmoglein 3 from Cell Marque™:

- In vitro diagnostic
- Compatible with automated platforms
- High sensitivity and specificity for pulmonary squamous cell carcinoma 4
- Useful with napsin A, as a double stain for lung carcinoma subtyping 5

Ordering Information:

VolumePart No.	VolumePart No.
0.1 ml, concentrate 436R-14	1 ml, prediluted 436R-17
0.5 ml, concentrate 436R-15	7 ml, prediluted 436R-18
1 ml, concentrate 436R-16	Positive control slides 436S

References:

- 1. http://www.cancer.org/
- 2. https://www.lungevity.org/about-lung-cancer/lung-cancer-101/types-of-lung-cancer/squamous-cell-lung-cancer
- 3. Rekhtman N, et al. Mod Pathol. 2011 Oct;24(10):1348-59
- 4. Savci-Heijink CD, et al. Am J Pathol. 2009 May;174(5):1629-37
- Agackiran Y, et al. Appl Immunohistochem Mol Morphol. 2012 Jul;20(4):350-5.

Using RabMAb $^{\circ}$ technology from Abcam, Desmoglein 3 has the sensitivity of a rabbit antibody with the specificity and cleanliness of a monoclonal antibody for a strong signal to noise ratio.



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