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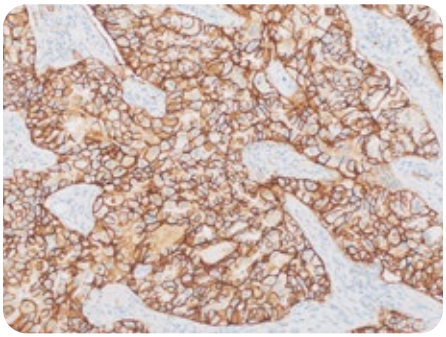
Cell Marque™ Tissue Diagnostics

Newly Released: Claudin-4, Ki-67, and More

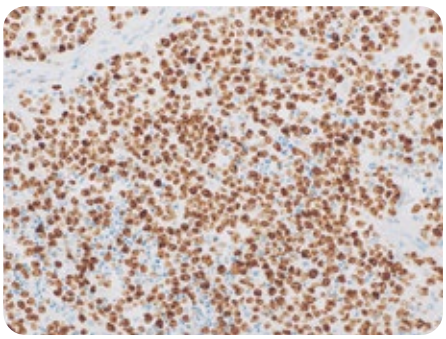


Claudin-4 (EP417)

The claudin-family proteins are a group of tight-junction membranous proteins responsible for paracellular molecular flow between adjacent cells of the epithelium.[1] In normal kidney, claudin-4 plays a key role in paracellular ion reabsorption.[2] Claudin-4 is expressed in most epithelial cells yet is absent in mesothelial cells, making it of great use in characterizing epithelial malignincies.[3] Immunohistochemical identification of this antigen may help identify poorly differentiated lung adenocarcinoma from lesions of mesothelial origin.[4] Likewise, identification of claudin-4 expression by IHC may be useful in characterizing breast and endometrial lesions.[5,6]

References: 1. Cong X, et al. *Journal of Cell Science* 2015; 128:2271-2286. 2. Hou J, et al. *Proc Natl Acad Sci USA* 2010; 107(42):18010-5. 3. Neesse A, et al. *Arch Biochem Biphys*; 2012; 524(1):64-70. 4. Ordoñez NG. *Anatomic Pathology* 2013; 139:611-619. 5. Abd-Elazeem MA, et al. *Ann Diagn Pathol.* 2015; 19(1):37-42. 6. Konecny GE, et al. *Gynecol Oncol.* 2008; 109(2):263-269.

Description	Cat. No.
0.1 mL concentrate	**468R-14**
0.5 mL concentrate	**468R-15**
1.0 mL concentrate	**468R-16**
1.0 mL predilute	**468R-17**
7.0 mL predilute	**468R-18**



Ki-67 (MRQ-64)

Ki-67 (MRQ-64) is an antibody designed to target Ki-67 antigen-a nuclear protein encoded by the MKI67 gene whose presence correlates with G1, S, G2, and the mitotic phases of the cell cycle.[1] Though its specific role is largely postulated and still yet to be determined, Ki-67's presence during cellular division makes it an excellent target for labeling rapidly growing malignancies.[2] Given that its presence correlates with cell proliferation, the immunohistochemical labeling of Ki-67 antigen may be useful in characterizing a lesion's growth fraction. It has been demonstrated that identifying this antigen by IHC is useful in characterizing lesions of the breast, lymphoid cells, astrocytes, and uterus.[3-9]

References: 1. Scholzen T, et al. *J Cell Physiol.* 2000; 182(3):311-22. 2. Sun X, et al. *Chromosoma*. 2018; 127(2):175-186. 3. Abd-Elazeem MA, et al. *Annals of Diagnostic Pathology* 2015; 19:37-42. 4. Inwald EC, et al. *Breast Cancer Res Treat.* 2013; 139(2):539-552. 5. Ning J, et al. *J Cancer.* 2019; 10(12):2635-2642. 6. Broyde A, et al. *Am J Hematol.* 2009; 84(6):338-43. 7. Chuang SS, et al. *Am J Clin Path* 2007 128(4):558-64. 8. Shivaprasad NV, et al. *J Neurosci Rural Pract.* 2016 7(4):510-514. 9. Mayerhofer K, et al. *Acta Obstet Gynecol Scand.* 2004; 83(11):1085-8.

Description	Cat. No.
0.1 mL concentrate	**275R-34**
0.5 mL concentrate	**275R-35**
1.0 mL concentrate	**275R-36**
1.0 mL predilute	**275R-37**
7.0 mL predilute	**275R-38**
25.0 mL prediute	**275R-30**

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Rabbit monoclonal antibodies, ROS1 and ARID1A, are now available in the Cell Marque™ Antibody Portfolio. As your trusted partner in IHC, we value the importance of introducing novel markers into your laboratory. These new antibodies are conveniently available to order today.

Description	Cat. No.
ROS1 (MRQ-68)	
0.1 mL	469R-94-ASR
0.5 mL	469R-95-ASR
1.0 mL	469R-96-ASR
1.0 mL Sample Size	469R-97-ASR
7.0 mL	469R-98-ASR

Description	Cat. No.
ARID1A (EP303)	
0.1 mL	407R-14-ASR
0.5 mL	407R-15-ASR
1.0 mL	407R-16-ASR
1.0 mL Sample Size	407R-17-ASR
7.0 mL	407R-18-ASR

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MilliporeSigma, with our Cell Marque™ brand, in a proud partnership with Abcam, exclusively offers a robust portfolio of highly specific and sensitive rabbit monoclonal antibodies created with their patented RabMAb® technology.

Intended Use: These products herein are intended for laboratory use in the detection of their respective proteins in formalin-fixed, paraffin-embedded tissue stained in qualitative immunohistochemistry (IHC) testing. These products are not a stand-alone diagnostic, and cannot be used for diagnosis, treatment, prevention, or mitigation of disease.

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