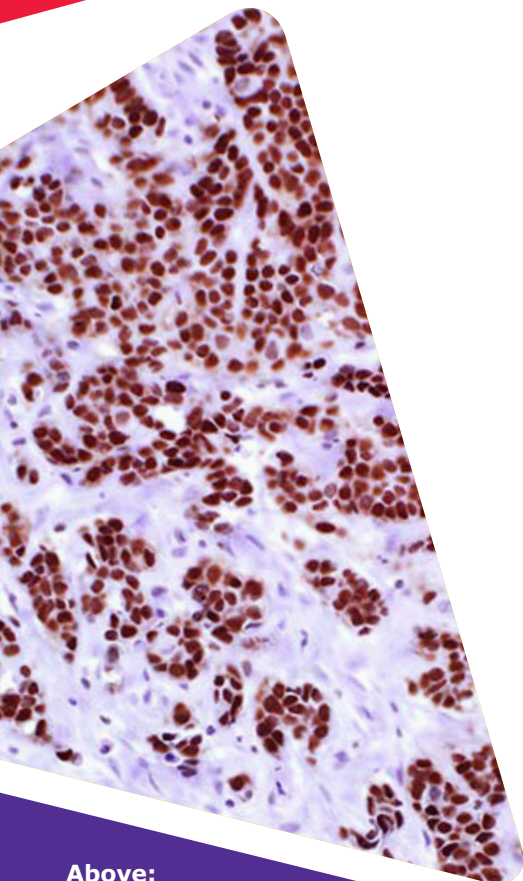
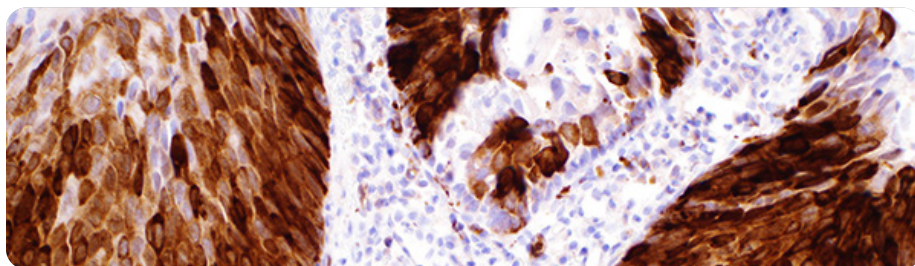


Cell Marque™ Tissue Diagnostics Breast/GYN Pathology



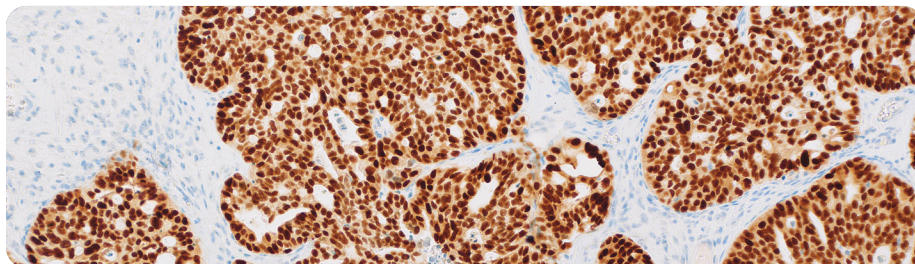
Above:
FOXA1 (2F83)

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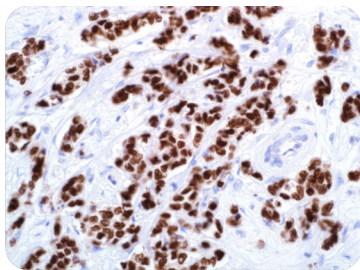
Stathmin (SP49)

Stathmin functions as a regulatory element in microtubule dynamics, making its role in the cell cycle critical. Its expression is therefore ubiquitous, but it is particularly found in tissues with higher cell turnover. Stathmin expression in cervical intraepithelial neoplasia (CIN) has been demonstrated to be grade dependent, with the highest expression in CIN 3 and the least expression in CIN 1.



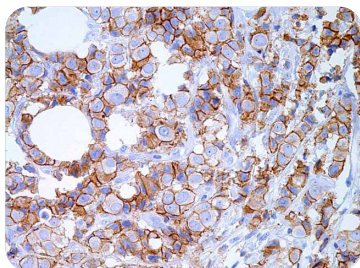
PAX-8 (SP348)

PAX-8 is a transcription factor expressed during embryonic development of Müllerian organs, kidney, and thyroid, with continued expression in neoplastic transformation of some epithelial cell types of these mature tissues. It can be useful for marking several types of carcinoma including, but not limited to, ovarian serous carcinoma, clear cell renal cell carcinoma and papillary thyroid carcinoma. Certain anti-PAX-8 antibodies may react with lymphocytes and their neoplasms, which has been attributed to cross-reactivity with PAX-5 due to sequence homology between PAX-8 and PAX-5, but clone SP348 does not exhibit reactivity in these cell types.



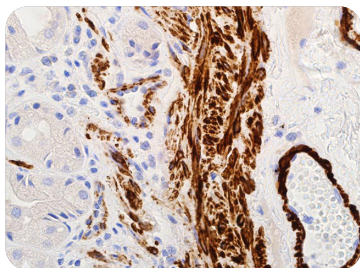
GATA3 (L50-823)

GATA binding protein 3 or GATA3, is a zinc finger transcription factor and plays an important role in promoting and directing cell proliferation, development, and differentiation in many tissues and cell types. The human GATA3 gene has been mapped to chromosome 10p15. GATA3 expression is primarily seen in breast carcinoma and urothelial carcinoma. Anti-GATA3 can also be useful in the identification of unknown primary carcinoma when carcinomas of the breast or bladder are a possibility.



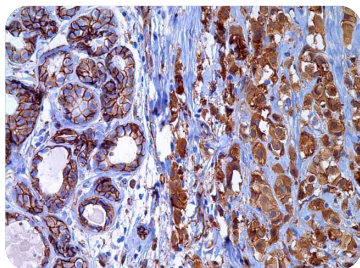
E-cadherin (EP700Y)

E-cadherin is a transmembrane protein that is involved in cell adhesion through the formation of adherens junctions between cells. It is expressed in cells of epithelial lineage. Anti-E-cadherin stains positively in glandular epithelium as well as carcinomas of the gastrointestinal tract¹ and breast. E-cadherin immunohistochemistry may also aid in the differentiation of breast ductal carcinomas (with membranous stain) from lobular carcinomas (with loss of the membranous stain).



Myosin Smooth Muscle (EP166)

Smooth Muscle Myosin, heavy chain (SMM-HC) is a cytoplasmic structural protein that is a major component of the contractile apparatus of the smooth muscle cells. SMM-HC is also a myoepithelium-associated protein. Anti-SMM-HC is a monoclonal antibody to smooth muscle myosin, heavy chain that reacts with human visceral and vascular smooth muscle cells. The antibody also reacts with human myoepithelial cells. It is very helpful in distinguishing between benign sclerosing breast lesions and infiltrating carcinomas in difficult cases since it strongly stains the myoepithelial layer in the benign lesions while it is negative in the infiltrating carcinomas.



p120 Catenin (MRQ-5)

p120 catenin is encoded on chromosome 11q11. Alpha-catenin and beta-catenin bind to the intracellular domain of E-cadherin while p120 catenin binds E-cadherin at a juxta-membrane site. The complex stabilizes tight junctions. In the cell, p120 catenin localized to the E-cadherin/catenins cell adhesion complex, directly associates with cytoplasmic C-terminus of E-cadherin and may similarly interact with other cadherins. A deficiency of E-cadherin results in the intracytoplasmic accumulation of p120 catenin. Lobular carcinoma of the breast shows intracytoplasmic accumulation of p120 catenin while ductal carcinoma shows reduced membrane p120 catenin without cytoplasmic accumulation. In gastric and colonic carcinoma, strong cytoplasmic p120 catenin is associated with discohesive infiltrative morphology.

Intended Use: Each antibody is intended for laboratory use in the detection of the target protein in formalin-fixed, paraffin-embedded human tissue stained in qualitative immunohistochemistry (IHC) testing. The results using this product should be interpreted by a qualified pathologist in conjunction with the patient's relevant clinical history, other diagnostic tests proper controls.

The products featured are *in vitro* diagnostic (IVD) medical devices. The products featured are not available in all countries. Please contact your local sales representative or distributor for details.

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