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TEST UPDATES and ANNOUNCEMENTS

January 31, 2011

Dear Colleague:

Pathology, Inc. is pleased to announce the availability of eight (8) new immunohistochemistry (IHC) biomarkers for better characterization of tissue and cell populations.

New IHC Markers

Pathology, Inc is now offering eight (8) new immunohistochemistry markers for characterizing cells. Our comprehensive library now totals 186 stains, consisting of 183 single IHC markers or panels and 3 In Situ Hybridization (ISH) assays.

MUC-1, MUC-5AC, and MUC-6 are welcome additions to our existing library of mucin-related glycoproteins useful in various gastrointestinal, breast, and pancreaticobiliary neoplasms. PAX-2 and PAX-8 are members of the paired box (PAX) gene family, involved in the development of several organ systems by preventing terminal differentiation and maintaining a progenitor cell state while inducing cell-lineage commitment. Consequently, PAX gene expression is cell lineage-restricted. VZV is an infectious marker, while both galectin-3 and smoothelin may be useful in head and neck neoplasms and bladder carcinoma, respectively. Please feel free to contact Pathology, Inc. for any questions.

The complete list is available on our Website (www.pathologyinc.com) and is updated regularly. Please call client services at 877.922.PATH (7284) for ordering information.

We thank you for choosing Pathology, Inc. and look forward to your continued support.

Sincerely yours,

Alfred Lui, M.D.
Chief Medical Officer

New Tests

Immunohistochemistry (IHC)

Marker	Clinical Utility
Galectin-3	Usually positive in thyroid and parathyroid malignancies, negative in reactive conditions of those glands. Also positive in prolactinoma, liver, colon, and some head and neck tumors.
MUC-1	Membrane-associated mucin /"mammary-type" – positive in pancreatobiliary and breast tumors, generally luminal staining; becomes cytoplasmic with less differentiated neoplasms. Rarely positive in gastric carcinoma.
MUC-5AC	Gel-forming mucin /"intestinal or goblet-type" – positive in villous / intestinal type intraductal papillary mucinous neoplasms, intestinal type adenocarcinoma of ampulla or duodenum.
MUC-6	Gel-forming mucin /"pyloric-type" – positive in Brunner's glands, gastric antral and fundic glands, and some intraductal neoplasms (oncocytic).
PAX-2	Positive in Wolffian (nephric) ducts and Mullerian ducts, thus positive in renal cell carcinomas and ovarian tumors respectively.
PAX-8	Positive in thyroid and renal cell carcinomas.
Smoothelin	Stains smooth muscle only. Useful to recognize muscularis propria in bladder/TURP samples.
VZV	Varicella zoster virus