

Supplementary Figure Caption

Supplementary Figure 2.

Discordances between automated and pathologists' scores: a) both pathologists scored case as negative while Ariol scored the case as strong positive, secondary to detected staining of entrapped benign epithelium; b) average pathologists' score was 15% while Ariol scored this as 50%, probably due to a lower automated threshold for detecting light brown as positive stain; c) dark stain is recognized in vascular endothelial cells and entrapped clusters of epithelial cells within dense fibrous tissue, raising disagreements about the validity of the staining pattern, d) pathologists scored as negative, whereas Ariol scored as 90% of cells stained because the instrument misclassified benign stromal cells as tumor cells; e-f) pathologists interpreted as negative, Ariol scored as strong positive related to artifact; g-h) pathologists scored as negative, whereas Ariol scored as positive, probably reflecting machine misclassification of heavy counterstain (blue) as positive (brown).

Note: Yellow dots denote nuclei which Ariol interpreted to be tumor nuclei showing positive staining and pink dots denote nuclei which Ariol interpreted to be tumor nuclei showing no positive staining.