



**Figure S1.** Antibody staining control for immunohistochemistry. Antibody validation was performed with utility of external tissue controls and negative reagent controls. Representative pictures are shown from the separate slides of selected biomarkers: **A** and **B**, Negative controls for CDK4 and CDK6 (follicular carcinoma; no primary antibody used). **C** and **D**, External tissue controls for pRb and cyclin D1 (human tonsil). **E**, Positive tissue control for PMS2 (human colon adenoma). **F**, Positive tissue control for MSH1 (human colon adenoma).