



**Figure S6. Examples of FISH on different FFPE tissue sections using EC buffer without denaturation.** The FFPE tissue sections of tonsil and colon were hybridized with 15% EC buffer and 45% formamide buffer at 45°C for 16 hours without prior denaturation. The images are merged micrographs of red *BCL2* DNA and green *BCL2* DNA split probes, and red *HER2* DNA and green CEN-17 PNA probes. The images are taken with identical exposure times. DAPI, blue staining. Scale bar, 10  $\mu\text{m}$ .