

Hematoxylin and Eosin (H&E) Staining with the PAXgene[®] Tissue System

- Intact histomorphology
- Staining pattern of PAXgene Tissue fixed, paraffin-embedded (PFPE) comparable to formalin-fixed, paraffin-embedded tissue (FFPE)
- Preserved chromatin structure

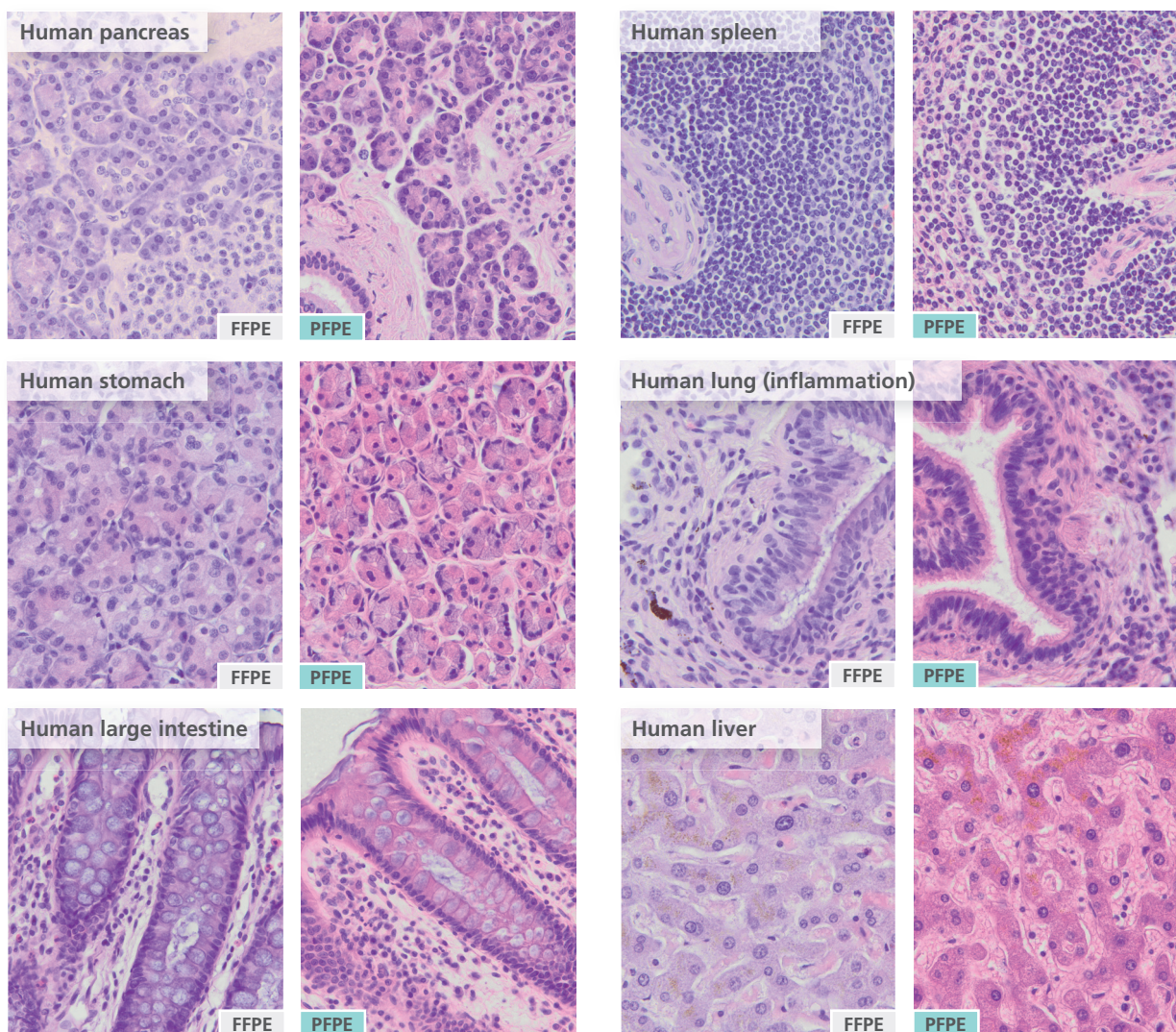
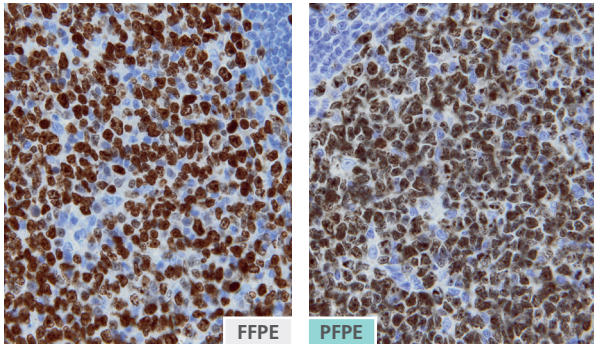


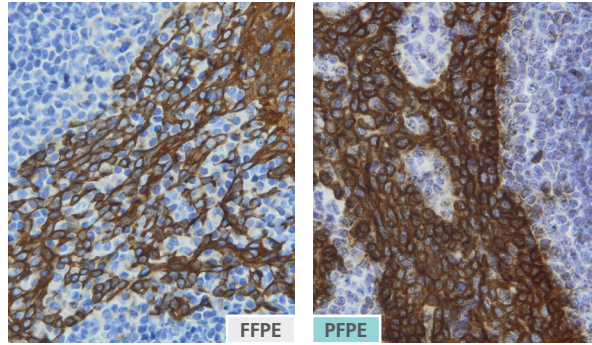
Figure 1. H&E staining with the PAXgene Tissue System gives comparable results to formalin-fixed tissue: Human tissue samples were divided into two sub-samples. One sub-sample was fixed with a PAXgene Tissue Container, and the other half was fixed in neutral-buffered formalin. The fixed tissues were embedded in paraffin, sectioned, and stained with hematoxylin and eosin. PFPE: PAXgene Tissue fixed, paraffin-embedded; FFPE: formalin-fixed, paraffin-embedded.

Immunohistochemistry (IHC) with the PAXgene Tissue System

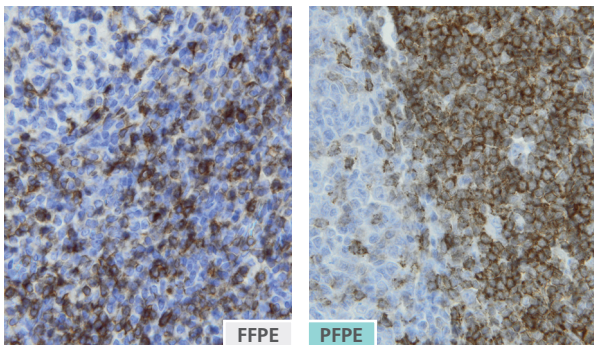
- After optimizing of antigen retrieval step: staining intensities of PFPE tissue are comparable to FFPE tissue



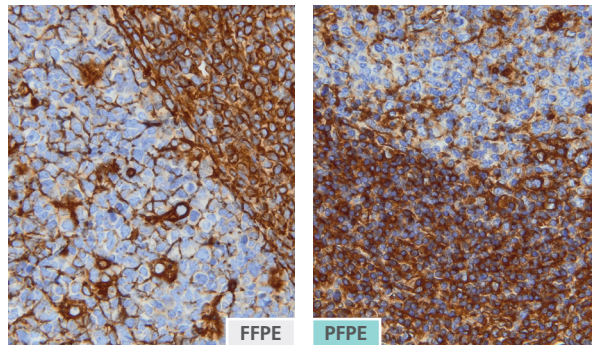
Ki-67: Human tonsil, Ki-67 immunostaining (clone MIB-1 from Dako); PFPE section with epitope retrieval in Tris/EDTA buffer pH 9 for 10 min at 70°C



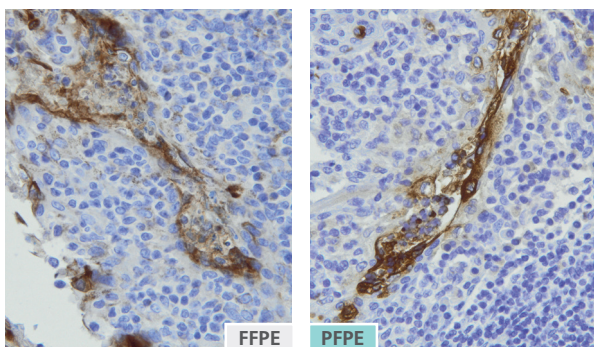
Pankeratin: Human tonsil, cytokeratin immunostaining (clone AE1/AE3 from Dako); PFPE section with epitope retrieval in Tris/EDTA buffer pH 9 for 10 min at 70°C



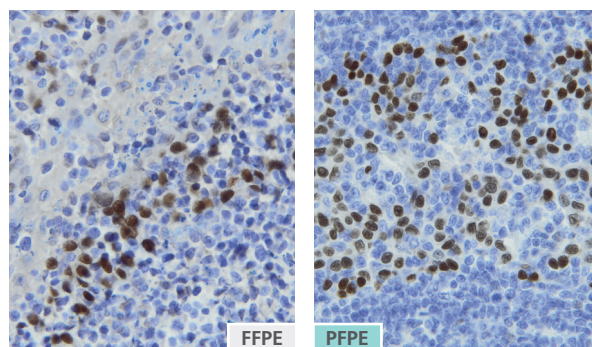
CD5: Human tonsil, CD5 immunostaining (clone CD5/54/F6 from Dako); PFPE section with epitope retrieval in Tris/EDTA buffer pH 9 for 10 min at 98°C



Vimentin: Human tonsil, vimentin immunostaining (clone V9 from Dako); PFPE section without epitope retrieval



CEA: Human tonsil, carcinoembryonic antigen (CEA) immunostaining (clone II-7 from Dako); PFPE section without epitope retrieval



p63: Human tonsil, p63 immunostaining (clone 4A4 from Dako); PFPE section with epitope retrieval: Tris/EDTA buffer pH 9 for 10 min at 70°C

Figure 2. IHC with the PAXgene Tissue System gives comparable results to formalin-fixed tissue: Human palatine tonsil tissue was fixed in PAXgene Tissue Containers or with neutral-buffered formalin and embedded in paraffin. Primary antibodies to the indicated antigens were linked to a streptavidin-peroxidase conjugate by a biotinylated secondary antibody (LSAB method). Sections were counterstained with hematoxylin.

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