


Schedule of Accreditation

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United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 Accredited to ISO 15189:2012	Synnovis Analytics LLP Issue No: 020 Issue date: 01 November 2023	
	Histopathology Ground Floor Bessemer Wing King's College Hospital Denmark Hill London SE5 9RS	Contact: Janet Okafor Tel: +44 (0) 203 2994610 E-Mail: janet.okafor@nhs.net Website: www.synnovis.co.uk
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Location details	Activity	Location code
Histopathology Ground Floor Bessemer Wing King's College Hospital	Janet Okafor (as above)	Histopathology Diagnostic Cytopathology Molecular Pathology
Radiology Denmark Wing FNA Clinic King's College Hospital	Janet Okafor (as above)	FNA material/slide preparation Cellularity assessment
Dental Radiology FNA Clinic King's College Hospital	Janet Okafor (as above)	FNA material/slide preparation Cellularity assessment



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location code
HUMAN TISSUES AND FLUIDS	<u>Histopathology</u> Preparation and examination to identify or exclude morphological & cytological abnormalities	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
Formalin fixed tissues		<u>Macroanalysis and dissection</u> Manual methods using: LPHIS02 Histopathology Cut-Up LPHIS03 Handling Fresh Lymph Nodes LPHIS07 BMS Cut-UP MEDP01 General guidelines for specimen dissection MEDP02 Handling of Pathological MEDP03 Breast Specimen Dissection SOP MEDP04 Cardio-Pulmonary Specimen Dissection MEDP05 Endocrine Specimen Dissection MEDP06 Gastrointestinal Specimen Dissection MEDP07 Urinary and Male Genital System Specimen Dissection SOP MEDP08 Gynaecological Specimens Dissection SOP MEDP09 Lymphoreticular Specimen SOP MEDP10 Musculo-Skeletal Specimens SOP MEDP11 Perinatal and Paediatric Specimen Dissection SOP MEDP12 Skin Specimen Dissection SOP	KC
		<u>Decalcification</u> Manual method using: LPHIS09 DECALCIFICATION LPHIS29 Decalcification Procedure	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
Formalin fixed tissues		<u>Tissue Processing</u> Automated method using: LPHIS23 and Sakura Tissue Tek VIP 6 Sakura Tissue Tek VIP 6 AI	KC
Formalin fixed tissues		<u>Embedding</u> Manual method using: LPHIS10 Tissue embedding and: Sakura Tissue Tek 6 embedding centres	KC
Formalin fixed paraffin embedded (FFPE) tissue		<u>Microtomy</u> Manual method using: LPHIS11 Tissue sectioning and Leica 2235 Leica Histo Core Biocut	KC
Fresh tissue Frozen tissue	Intra-operative diagnosis	<u>Rapid frozen section:</u> Cryotomy and manual Haematoxylin & Eosin (H&E) staining method using: LPHIS19 Using and Defrosting Cryostats and: ThermoScientific NX50	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Basophilic and eosinophilic tissue structures	<u>Routine Haematoxylin & Eosin (H&E) staining and coverslipping</u> Automated method using: LPHIS12 and: Sakura Prisma Autostainer	KC
FFPE tissue (unless otherwise stated)	Detection of the following: Acid mucins (suplhomucins & sialomucins) Acid mucins (suplhomucins & sialomucins) Neutral mucins Mixed mucins Mast cells Acid mucopolysaccharides Amyloid Elastic and mast cell granules Mast cells Gram positive and gram negative organisms Fungi	<u>Special staining</u> Manual methods using: LPHIS16 and the following stains: Alcian Blue Alcian Blue/PAS/diastase Azure A Congo red Elastic Van Gieson (EVG) Giemsa Gram's Grocott	KC



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FFPE tissue (unless otherwise stated)	Detection of the following:	<u>Special staining (cont'd)</u>	KC
	Basophilic and eosinophilic tissue structures	H&E	
	Collagen and muscle	Haematoxylin Van Gieson (HVG)	
	Basement membranes	Jones Methenamine Silver	
	Muscle & fibrin	Masson trichrome	
	<i>Helicobacter pylori</i> & <i>Helicobacter</i> -like organisms	Modified Giemsa	
	Fibrin, muscle & connective tissue	Martius, Scarlet, Blue (MSB)	
	Mucin	Southgate's mucicarmine	
	Hepatitis B antigen, elastic fibres and copper associated protein	Orcein	
Frozen sections	Lipids & phospholipids	Oil red O	
	Glycogen and other tissues containing aldehydes	PAS diastase/PAS	
	Haemosiderin & ferric salts	Perls' Prussian Blue	
	Type IV collagen fibres (Reticulin)	Reticulin	
	Mast cells	Toluidine Blue	



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FFPE tissue	Detection of the following: Calcium <i>Mycobacterium tuberculosis</i>	<u>Special staining (cont'd)</u> Von Kossa Ziehl-Neelsen	KC
FFPE tissue	Detection of the following: BRAC1-associated protein: Acts as a tumour suppressor Cell adhesion marker Reacts with BKV infected cells C4d fragment – a marker of antibody-mediated acute renal allograft rejection, detected in the peritubular capillaries Calcium binding protein Mantle cell lymphomas Common B cell marker and follicular dendritic cells	<u>Immunohistochemistry</u> Automated methods using: LPICC16 The LEICA Bond III Staining System LPICC17 Leica Bond-III Reagents and: Leica Bond III with the following antibodies: BAP1 β-catenin BK Virus C4d CALRETININ CD5 CD19	KC



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FFPE tissue	<p>Detection of the following:</p> <p>Marker for increased IL-2 expression associated to lymphoid neoplasia: hairy cell leukaemia, T-cell lymphomas and mastocytosis</p> <p>Endothelial cells but also expressed on human lymphoid and myelopoietic progenitor cells. Useful to identify vascular tumours and characterise leukaemias</p> <p>NK cells, neuroendocrine cells and derived tumours</p> <p>Megakaryocytes, platelets. Useful in evaluating the number of megakaryocytes, size and nuclear lobation, abnormal forms in MDS, AML</p> <p>B cell antigen receptor, found in the majority of acute leukaemias of precursor B cell type, in B cell lines, B cell lymphomas and in some myelomas. Is NOT present in myeloid or T cell lines</p>	<p><u>Immunohistochemistry</u> Automated, Leica Bond III (cont'd)</p> <p>CD25</p> <p>CD34</p> <p>CD57</p> <p>CD61</p> <p>CD79a</p>	KC



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FFPE tissue	Detection of the following: Expressed by a wide variety of cells, including bone marrow stem cells, germ cells, melanocytes, mast cells and breast epithelium. Useful in differentiating gastrointestinal stromal tumours from Kaposi's sarcoma High endothelial venules of the tonsil, plasmacytoid dendritic cells, occasional white blood cells in the bone marrow, as well as expressed by a range of other tissues, for example Leydig cells of the testis. Useful in the identification of plasmacytoid dendritic cell neoplasms Positive in normal colonic mucosa, gastro-intestinal adenocarcinomas. Negative in mesothelioma Marker for large number of epithelial cells including ductal and glandular	<u>Immunohistochemistry</u> Automated, Leica Bond III (cont'd) CD117 CD123 CEA CK19	KC



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FFPE tissue	<p>Detection of the following:</p> <p>Reacts with the membrane of hairy cell leukaemia cells. Also reacts with endothelial cells, the cytoplasm of some macrophages, some germinal centre cells, mantle zone cells and immunoblasts</p> <p>Reacts with 53kD intermediate filament protein in muscle cells. Skeletal, cardiac (Z bands) and smooth muscle cells react as well as tumours of myogenic origin i.e. leiomyo & rhabdomyosarcomas</p> <p>Fibrin & fibrinogen fragments D, E, X & Y</p> <p>Von Willebrand factor</p> <p>Apocrine epithelia i.e. glands. Specific marker for breast carcinoma</p> <p>Astrocytes, Schwann cells, satellite cells, enteric glial cells & glial tumours</p> <p>MHC Class II antigen expressed on monocytes/macrophages, dendritic cells, B cells and activated T cells</p>	<p><u>Immunohistochemistry</u> Automated, Leica Bond III (cont'd)</p> <p>DBA44</p> <p>Desmin</p> <p>Fibrinogen</p> <p>FVIIIa</p> <p>GCDFP-15</p> <p>GFAP</p> <p>HLA-DR</p>	KC



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FFPE tissue	Detection of the following: Spiral shaped microaerophilic, gram negative rod (<i>Helicobacter pylori</i>) Immunoglobulin heavy chain constant region gamma 4 Polyclonal light chains of kappa type Polyclonal light chains of lambda type Mast cells (mast cell tryptase) Myosin heavy chain smooth muscle. Smooth muscle cells, intact myoepithelial cells in breast Pan cytokeratin that is positive for simple glandular through to stratified squamous epithelia and their derived neoplasms Neurones, neuroendocrine cells and their derived tumours. Some carcinomas, lymphomas & gliomas	<u>Immunohistochemistry</u> Automated, Leica Bond III (cont'd) H.PYLORI IgG4 Kappa Lambda MCT MHC-SM MNF116/PANC/KER NSE	KC



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FFPE tissue	Detection of the following: Nuclei of B cells in: germinal centre, mantle zone, monocytoid and plasma cells. Used for classification of lymphomas Nuclei of embryonic stem cells and germ cells. Useful marker for germ cell tumours Parvovirus infected cells Nuclei of B cells. B cell transcription factor. Used for classification of B-cell lymphomas Perinuclear, cytoplasm of activated T-cells, NK cells. Used to help subtype T-cell lymphomas Human placental lactogen Nuclear. Mismatch repair proteins, involved in maintaining the integrity of genetic information. Stains all cells that are in the cell cycle. Mutated in families with HNPCC. Forms heterodimers with MLH1.	<u>Immunohistochemistry</u> Automated, Leica Bond III (cont'd) Oct2 Oct 3/4 Parvovirus PAX5 Perforin PLACTO PMS2	KC



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FFPE tissue	<p>Detection of the following:</p> <p>Succinate dehydrogenase complex B in muscle. Defects in SDHB are a cause of susceptibility to pheochromocytoma as well as the cause of hereditary paragangliomas and type 4 Cowden-like syndrome</p> <p>Endocrine cells, neuroendocrine cells and their derived tumours</p> <p>Cytoplasmic granules in cytotoxic T cells, NK cells. Useful in sub-classifying peripheral T-cell lymphomas</p> <p>Nuclei of tumour cells. A tumour suppressor gene. Overexpressed in many tumours</p> <p>Wilms Tumour marker</p>	<p><u>Immunohistochemistry</u> Automated, Leica Bond III (cont'd)</p> <p>SDHB</p> <p>Synaptophysin</p> <p>TIA1</p> <p>P53</p> <p>WT1</p>	KC



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FFPE tissue	<p>Detection of the following:</p> <p>Expressed in several tissues including prostate, skin and oral mucosa</p> <p>Marker for Hairy Cell Leukaemia and certain types of breast and gastric carcinomas</p> <p>Detects BRAF V600E mutation</p> <p>Expressed by T cells and is expressed by the majority of precursor and mature T cell lymphomas and leukaemias.</p> <p>Preferred marker for T-cells. A polyclonal pan T antibody, occasional T-cell neoplasms</p> <p>Expressed on T-helper / regulatory T-cells, monocytes, macrophages and dendritic cells</p> <p>Labels thymocytes & the majority of peripheral T cells. Early marker of T cell commitment</p> <p>Cytotoxic/suppressor T-cells</p>	<p><u>Immunohistochemistry</u> Automated methods using: LPICC19 The Ventana Benchmark Ultra System and: Ventana Benchmark Ultra with the following antibodies:</p> <p>Androgen Receptor</p> <p>Annexin A1</p> <p>BRAF V600E</p> <p>CD2</p> <p>CD3</p> <p>CD4</p> <p>CD7</p> <p>CD8</p>	KC



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FFPE tissue	Detection of the following: Expressed on cells of lymphoblastic, Burkitt's & Follicle centre cell lymphomas and cells of patients with chronic myelocytic leukaemia (CML). Also expressed on normal cells, i.e. early lymphoid progenitor cells, immature B cells within adult BM & germinal centre B cells within lymphoid tissue. Also expressed in myoepithelial cells (breast), bile canaliculi, fibroblasts & brush border of kidney & gut epithelial cells	<u>Immunohistochemistry</u> Automated methods using: LPICC19 The Ventana Benchmark Ultra System and: Ventana Benchmark Ultra with the following antibodies: CD10	KC



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FFPE tissue	Detection of the following: Neutrophils, dendritic reticulum cells and most glandular epithelium. Cells of the monocyte/macrophage lineage are negative, so too are non-Hodgkins lymphomas. Hodgkins and RS cells are strongly positive, but the lymphocyte predominant type occasionally negative Pan B-cell marker, also some Reed-Sternberg (RS) cells. Preferred marker for B-cells Reacts with follicular dendritic cells and mature B cells. Expressed by B cells in the germinal centres, useful in the differential diagnosis of small B cell lymphomas. T cell surface glycoprotein, used for identifying Ewing's sarcoma and peripheral neuroectodermal tumours (PNET) Transcription factor, used for identifying primary and metastatic tumours of the GI tract	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) CD15 CD20 CD21 CD23 CD99 CDX2	KC



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FFPE tissue	Detection of the following: Regulator of growth-related gene transcription. DLBCL, Burkitt's lymphoma and some follicular lymphomas Anaplastic large cell lymphomas, mononuclear HD & RS cells. Will also demonstrate plasma cells. (Outside lymphoid tissue, Ber H2 labels pancreatic acinar cells and occasionally carcinomas derived from these cells) Reacts with cytokeratins 1, 5, 10 and 14, therefore Labelling squamous, ductal and complex epithelia. Useful in the classification of prostatic adenocarcinoma, and the classification of neoplastic tissue as carcinoma of epithelial origin Demonstrates A component of amyloid Macrophages, histiocytic lymphomas and some T-cell lymphomas. Hepatocellular carcinomas, yolk sac tumours	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) Cmyc Ber H2/Ki-1 (CD30) CK34βE12 α-amyloid α-1-antitrypsin α-fetoprotein (AFP)	KC



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FFPE tissue	Detection of the following: Expressed in kidney, colon, prostate, stomach, uterus and liver. Useful in classification of prostate adenocarcinomas Broad reactivity with epithelial cells. Mesothelial cells are negative Expressed in normal endometrial glands, ovary and cervix. Expressed in ovarian carcinoma Positive in C-cells of the thyroid and medullary carcinoma of the thyroid Regulatory protein in smooth muscle cells. Labels tumours of smooth muscle and myofibroblastic and myoepithelial differentiation	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) AMACR (Racemase) BerEP4 Ca125 Calcitonin Caldesmon	KC



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FFPE tissue	Detection of the following: Reacts with a 34kD polypeptide that interacts with actin, tropomyosin and calmodulin. Useful for staining the myoepithelium. Is also found to be positive in malignant myoepithelioma, pleomorphic adenoma of salivary gland origin, and angiomatoid malignant fibrous histiocytoma Cytokeratins 8, 18 & 19. Epithelial and mesothelial cells and derived tumours. Well differentiated squamous tumours negative. Positive for some sarcomas Positive for cortical thymocytes, Langerhans cells & interdigitating cells. Reacts with a B cell subset and in defining the thymic stage of T cells characteristically associated with leukaemias & lymphomas	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) Calponin Cam5.2 CD1a	KC



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FFPE tissue	Detection of the following: Expressed by T cells and cells of myeloid lineage Expressed on the surface of platelets, monocytes, granulocytes, B cells and at the endothelial intracellular junction. Useful in determining vascular invasion in breast cancer Expressed by plasma cells, monocytes, activated T cells, NK cells and thymocytes. All lymphoid cells, variable reaction with macrophages, histiocytes, monocytes. Myeloid cells are unreactive	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) CD43 CD31 CD38 CD45/LCA	KC



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FFPE tissue	Detection of the following: A cell adhesion molecule, expressed by most neuroectodermal-derived tissues and their tumours. Also labels NK cells Macrophages, myeloid cells and histiocytes and their derived neoplasms Expressed at late stages of B cell differentiation; by normal and malignant plasma cells and lymphoplasmacytoid cells. Also expressed by normal epithelial cells in some tissues Endocrine cells, neuroendocrine cells and their derived tumours High molecular weight Cytokeratins 5 and 6. Expressed in epithelial cells: stratified, transitional, complex, mesothelial, and proliferating squamous epithelium. Useful for distinguishing between: SCC and adenocarcinoma, epithelioid mesothelioma and lung carcinoma when used together with a panel of antibodies	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) CD56 CD68 CD138 Chromogranin CK5/6	KC



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FFPE tissue	Detection of the following: Intermediate filament protein expressed in simple, complex, transitional, ductal and glandular epithelium. Useful in distinguishing metastatic breast and colonic adenocarcinomas Intermediate filament protein expressed in cytoplasm of basal layer of stratified and non-squamous epithelia. Useful in identifying SCC of the lung, cervix and skin, also BCC Reacts with gastric and intestinal epithelium, urothelium and Merkel cells. Useful in distinguishing between GI tract and breast adenocarcinomas Reacts with lymphatic endothelium, lymphangiomas, Kaposi sarcoma. Useful for identifying lymphatic metastases Useful in classifying tumours of epithelial origin, but should be used in conjunction with LCA & cytokeratins. May be positive in large cell lymphomas and plasma cells	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) CK7 CK14 CK20 D240 (PODOPLANIN) EMA	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Useful to demonstrate basement membranes in breast carcinomas Upregulated in mantle cell lymphomas Reacts with the plasma membrane of GIST's including PDGFRa mutants that do not express KIT Transmembrane cell adhesion molecule in epithelial cells. Useful in identifying lobular breast carcinomas Transcription factor for cell proliferation, development and differentiation of many tissue types. Seen in breast carcinomas and urothelial carcinomas Enhances basic T cell response. Marker for immunodeficiency Melanocyte differentiation marker, used for melanoma identification. Staining with red chromogen ER positive cells	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) Collagen IV Cyclin D1 DOG1 E-Cadherin GATA-3 ICOS Melan A (Red) Oestrogen receptor	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Paired box gene 8 differential tumour marker for ovarian, thyroid and renal cell carcinoma Lymphoma marker Progesterone, for the diagnosis of PR-positive tumours and prediction of therapeutic response of breast carcinoma Tumour suppressor. Germline mutation or loss in retinoblastoma and osteosarcoma. Somatic mutations cause various tumours such as lung high grade neuroendocrine carcinomas Transcription factor of neural crest and peripheral nervous system. Melanoma-associated marker Spirochaete <i>Treponema pallidum</i> for diagnosis of syphilis	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) PAX8 PD1 PR RB1 SOX 10 Spirochaete	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Blood pro-enzyme that reacts with platelets, megakaryocytes, macrophages, dermal dendritic cells, and fibroblast-like mesenchymal or histiocytic cells. Useful in identifying dermatofibromas and malignancies Polypeptide hormone found in G cells of gastric mucosa. Useful in identifying G cell hyperplasia Erythrocytes, erythropoietic cells in bone marrow, diagnosing erythroid leukaemias (AML) Lytic granules in cytotoxic T-cells and NK cells. Useful in diagnosing NK/T-cell lymphomas and ALCL Human Herpes Virus type 8 positive cells. Infection likely to cause Kaposi's sarcoma	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) Factor 8 Gastrin Glycophorin Granzyme B HHV8	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Positive on membrane of mesothelial cells. Some adenocarcinomas are positive but show cytoplasmic staining Melanoma marker, labelling intracytoplasmic antigen in melanomas and other tumours with melanocytic differentiation Specific for α -chains Specific for delta-chains Specific for μ -chains Epidermal growth factor receptor overexpression in adenocarcinomas of breast and GI tract origin. This is used for predicting the response to anti-EGFR treatment Specific for gamma chains Transforming growth factor beta cytokine. Secreted in Sertoli cells of the testis and granulosa cells of ovary Demonstrates proliferating cells in lymphoma and breast tissue	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) HBME-1 HMB45 IgA IgD IgM HER2 IgG Inhibin Ki67 (MIB-1)	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Macrophages, histiocytic lymphomas Melanoma marker Syncytiotrophoblasts, but also many other normal tissues. Positive in seminomas, but also in other carcinomas. Nuclei of plasma cells, germinal centre B cells, activated T cells Found in myelocytes and generally negative for monocytes. Eosinophils & lymphocytes unreactive Cytoplasmic proteinase in lung adenocarcinomas Positive in neurones, peripheral nerves, some neuroblastomas & some gangliomas Nuclei and/or cytoplasm of carcinoma cells. Mutated in many tumours. Indicated in HPV infected cells	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) Lysozyme Melan A PLAP Mum-1 Myeloperoxidase Napsin A Neurofilament P16	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Nuclei of cytotrophoblast and stromal cells in placenta. A tumour suppressor gene. Used to help classify hydatidiform moles Nuclei of a variety of tissues: basal cells of normal epithelium in ectocervix, urothelium, oesophagus, and skin. Also basal cells of glands in breast, bronchi and prostate. Myoepithelial cells express this as well Reacts with secretory and ductal epithelium in normal & neoplastic tissue Melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, glial cells. Useful in identifying melanomas and other tumours Positive in myoepithelial cells. Reacts with smooth muscle & myoepithelial cells	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) P57 P63 PSA S100 SMA	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Detection of the following: Nuclei of mantle cell lymphoma cells Lymphoblastic leukaemias & lymphoblastic lymphomas Positive in thyroid epithelium, thyroid tumours & follicular adenoma Thyroid Transcription factor - nuclear: positive in lung adenocarcinomas, thyroid tumours Intermediate filament protein (57kD) of mesenchymal cells, including lymphoid, endothelial, fibroblasts & smooth muscle. A number of tumours co-express vimentin and cytokeratin, e.g. thyroid carcinomas, mixed tumours of salivary gland and some renal carcinomas. Co-expression of desmin & vimentin has been reported in rhabdos, alveolar soft tissue sarcomas and leiomyosarcomas	<u>Immunohistochemistry</u> Automated, Ventana Benchmark Ultra (cont'd) SOX-11 TdT Thyroglobulin TTF1 Vimentin	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue	Fine nerves in the mucosal lamina propria as well as any submucosal ganglion cells/ medium sized nerves cut transversely	<u>Enzyme Histochemistry</u> Manual method using: LPEH01 Acetyl Cholinesterase	KC
Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> In-house procedures: LIAD03 – Quality Control LPHIS16 – Quality checking of cases using: Brightfield microscopes	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Molecular Pathology</u> Detection of nucleic acid sequence/variants listed	Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue		<u>DNA extraction</u> Automated using: CMP021 and: Qiagen QiaCube	KC
DNA extracted in-house		<u>DNA concentration measurement</u> using: LPAD13 LIAD16 and: Life Technologies QubitFluorometer	KC
DNA extracted in-house		<u>DNA amplification by Polymerase Chain Reaction (PCR)</u> using: SOP: see tests and thermocyclers: Applied Biosystems Veriti Applied Biosystems Step One Plus Eppendorf Nexus Gradient Techne Prime	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Detection of nucleic acid sequence/variants listed (cont'd)	Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
Amplified DNA	MLH1	<u>Pyrosequencing</u> using: CMP14 and: Qiagen Pyrosequencer Q24	KC
cDNA	IGHV mutation status in CLL	<u>Next generation sequencing</u> using: LPAD25 and: LymphoTrack kit (Invivoscribe), MiSeq and LymphoTrackDxMiSeq software	KC



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Amplified DNA	Clonality Identity analysis IGH & TCR gene rearrangement	<u>Fragment length analysis</u> using: CMP07 and: Applied Biosystems 3500xl Genetic Analyser	KC
FFPE tissue (excluding samples requiring decalcification)	<p>Detects encoded RNA present in both latent & lytic EBV infection</p> <p>Infiltrative lymphocytes, T cells, melanomas and thymus tumours</p> <p>Infiltrative lymphocytes, T cells, melanomas, brain tumours and thyroid tumours</p>	<p><u>Chromogenic In-situ hybridisation (CISH)</u> Automated methods using: LPICC16 The Leica Bond III Staining System LPICC17 Leica Bond-III Reagents CMP10 and: Leica Bond III with the following RTU probes:</p> <p>EBER</p> <p>Kappa</p> <p>Lambda</p>	KC



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HUMAN TISSUES AND FLUIDS (cont'd)	Detection of nucleic acid sequence/variants listed (cont'd)	Examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	KC
FFPE tissue (excluding samples requiring decalcification)	Detection of the following:	<u>Fluorescent In-situ hybridisation (FISH)</u> Automated methods using: LPICC16 The Leica Bond III Staining System LPICC17 Leica Bond-III Reagents CMP10 and: Leica Bond III with the following RTU probes:	KC
	Alk gene translocation in lung. Anaplastic lymphoma	ALK1	
	Cmyc gene translocation in lymphoma t(8:14)	CMYC	
	Bcl2 translocation in B cell lymphoma, t(14;18). Upregulated in follicular, high grade B-cell & T-cell, lymphoblastic and anaplastic large cell lymphomas. Negative in reactive follicular hyperplasia	BCL2	
	Bcl6 translocation in diffuse large b cell lymphoma	BCL6	
	Her2	Her2	
FFPE tissue	CCDN1	<u>FISH</u> Manual methods using: CMP10 and probes: CyclinD-1	KC



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Body fluids: Cerebrospinal fluid (CSF) Urine General body fluids Brushings (Bronchial, gastric, oesophageal, duodenal etc.) Skin Scrapings Imprints Fine Needle Aspirations Respiratory Samples (Broncho alveolar lavage (BAL), Brushings, washings and sputum)</p> <p>Slides prepared in-house from sample types listed above</p>	<p><u>Diagnostic cytology</u> Preparation and examination of cellular material to identify or exclude cytological abnormalities</p>	<p>Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Preparation/centrifugation</u> In-house procedures: CPCK-COP-1 Cytology Health and Safety CPCK-SOP-2 Non-Gynae Preparation CPCK-SOP-8 FNA in conjunction with manufacturer's instructions using: Thermo Shandon Cytospins 3 & 4 Heraeus Megafuge 1.0 & Labfuge 400 Hologic T2000 processor</p>	KC
		<p><u>Papanicolaou staining</u> Automated/manual using in-house procedures: CPCK-SOP-3 Staining Methods</p> <p>in conjunction with manufacturer's instructions using: Thermo Shandon Varistain Gemini</p>	KC
	Red & white blood cells	<p><u>Hemacolor staining</u> Automated/manual using in-house procedures: CPCK-SOP-1 Non-Gynae Processing in conjunction with manufacturer's instructions using: Thermoshandon Varistain Gemini</p>	KC
	Morphological assessment and interpretation/diagnosis	<p><u>Microscopy (qualitative analysis)</u> In-house procedures: CPCK-SOP- 5 Cytology Quality CPCK-SOP- 6 Winpath User Instructions using: Brightfield microscopes</p>	KC



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Fine needle aspiration (FNA)	Cellularity assessment (sample adequacy confirmation) followed by subsequent processing and analysis in the Cytopathology Laboratory (KC)	<u>Material/slide preparation followed by microscopy</u> Manual methods using: CPCK-SOP-8 FNA and: Brightfield microscopes	KCFNA
END			