


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS MEDICAL 9609 Accredited to ISO 15189:2022	NHS Greater Glasgow & Clyde Issue No: 013 Issue date: 07 March 2025	
	Laboratory Medicine and Facilities Management 1345 Govan Road Glasgow G51 4TF	Contact: Nicola Small Tel: +44 (0) 141 354 9461 E-Mail: Nicola.small2@nhs.scot

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Laboratory Medicine and Facilities Management Building 1345 Govan Road Glasgow G51 4TF	Andrology Cervical Cytology Diagnostic Cytology Routine Histology Frozen Section Special Stains Immunocytochemistry Immunofluorescence Enzyme Histochemistry Electron Microscopy	A
Frozen Section Lab Glasgow Royal Infirmary 84 Castle Street Glasgow G4 0SF	Frozen Sections	B
Frozen Section Lab Golden Jubilee Hospital Agamemnon Street Clydebank G81 4DY	Frozen sections	C



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Issue No: 013 Issue date: 07 March 2025

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Locations of other activities:

Location details	Activity
QEUH Mortuary Laboratory Medicine and Facilities Management 1345 Govan Road Glasgow G51 4TF	Mortuary and Body store
GRI Glasgow Royal Infirmary Body Store 84 Castle Street Glasgow G4 0SF	Body Store
Royal Alexandra Hospital body store Corsebar Road Paisley PA2 9PN	Body Store
Inverclyde Royal Hospital Body store Larkfield Road Greenock PA16 0XN	Body Store
Gartnavel Hospital body store 1053 Great Western Road Glasgow G12 0YN	Body Store
Vale of Leven Body store Main Street Alexandria G83 0UA	Body Store
Dava Street archive store Central Stores Department, 21 Dava Street, Glasgow, G51 2JA	Slides and block storage



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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 BODY FLUIDS	<u>Andrological examination activities for the purposes of clinical diagnosis</u>		
Semen	<u>Post vasectomy</u> Detection of sperm Sperm concentration	Manual method using large volume chambers/ manual microscopy and documented in-house procedure SOP PATH AND LP 062	A
Semen	<u>Fertility testing</u> Volume pH Sperm morphology including TZI scoring Sperm concentration Sperm motility	Based on WHO laboratory manual for the examination and processing of human semen (Sixth edition 2021) and manual method using documented in-house procedure SOP PATH-AND-LP-063 Volume/weight Colorimetric strips Stained slides (Papanicolau) microscopy (Bright field) Microscopy (Phase contrast) Microscopy (Phase contrast)	A



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Cervical smears LBC samples	<p><u>Cervical Cytology examinations to assist in clinical investigations</u></p> <p>Qualitative detection of high risk HPV mRNA for diagnosis of precancerous and cancerous cervical cells</p>	<p>In House documented procedure & manufacturer's instructions using the following equipment</p> <p>Hologic Tomcat pre-analytical processor and targeted amplification nucleic acid probes on the Hologic Panther using the Aptima HPV assay LP-062</p> <p>Using:</p> <p>Hologic T5000 Autoloader LP-159</p>	A
	Cervical smear abnormalities	<p>Hologic T2000 Processor LP-159</p> <p>Sigma 3-16L Centrifuge LP-159, LP-062</p> <p>Automated Papanicolaou staining (PATH CY LP 008) on Sakura Tissue-Tek Prisma Plus Sakura Tissue-Tek Film Coverslipper Hologic Imaging System PATH-CY-LP-020</p>	
Slides/images prepared in house as above	Morphological assessment and interpretation/diagnosis	<p>Hologic Reviewscopes PATH-CY-LP-034</p> <p>Hologic Reviewscope Primary screening, Rapid Review, Checking and Medical Reporting PATH-CY-LP-001</p>	



9609

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<p>Wet fixed preparations Serous fluids, Respiratory FNA's, Washings, Brushings, Urines Cyst Fluids and 'other' fluids EBUS samples, synovial fluids</p> <p>Air dried Preparations Serous fluids, FNA's, synovial fluids FNA Wet fixed Preparations: breast, thyroid, lymph node</p> <p>Serous fluids, Knee joint aspirates,</p> <p>Respiratory specimens CSF</p> <p>Slides prepared in house as above</p>	<p><u>Diagnostic Cytology examinations to assist in clinical investigations</u></p> <p>Detection of abnormal cells</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>In House documented procedure & manufacturer's instructions using the following equipment:</p> <p>Manually stained using Rapid Romanowsky (Diff Quick) stain SOP PATH –NG-LP-196</p> <p>PAP stain Method using Leica XL Autostainer SOP;- operation of PATH-NG-LP-147 Pap staining;-PATH-NG-LP-199</p> <p>Manually stained using Rapid Romanowsky (Diff Quick) stain SOP PATH –NG-LP-196</p> <p>PAP stain Method using Leica XL Autostainer SOP;- operation of PATH-NG-LP-146 Pap staining;-PATH-NG-LP-199</p> <p>PAP stain Method using Leica XL Autostainer SOP;- operation of PATH-NG-LP-146 Pap staining;-PATH-NG-LP-199</p> <p>Manually stained using Leishman stain and microscopy SOP PATH-NG-LP-0-197</p> <p>Microscopy and Reporting SOP PATH-NG-LP-089; PATH-NG-LP-004</p>	<p>A</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Frozen Section Histology Examinations & Touch Preparations to assist in clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following	
Fresh Tissue	Detection of abnormal cells	Shandon Cryostat FE- manufacturer's instructions Leica CM1950 Cryostat, PATH-SHI-NP-LP-007, LP-056, LP-058, LP-060 & PATH-SHI-GEN-LP-001	A, B, C
	Basophilic and eosinophilic cells	Manual methods using H&E stain and Microscopy LP-184	
Post Mortem tissue (Fresh)	Lipids	Oil Red O PATH-SHI-GEN-LP-001, PATH-SHI-GEN-LP-010, LP-094, LP-157, LP-199	A
Human Brain, CNS & PNS	Basophilic and eosinophilic cells	H&E PATH-SHI-NP-LP-007, LP-019, LP-056, LP-058, LP-060, LP-157	
	General brain morphology	Toluidine Blue PATH-IMM-LP-009, PATH-SHI-NP-LP-003, 006, 009, LP-019, LP-056, LP-157	
Muscle	Basophilic and eosinophilic cells	H&E PATH-SHI-EH-LP-036, LP-188	
Rectal Tissue	Hirschsprungs disease	Methylene Blue PATH-SHI-GEN-LP-004, PATH-SHI-GEN-LP-001, PATH-SHI-GEN-LP-014	
Frozen sections of Rectal tissue	Hirschsprung's disease-	Acetylcholinesterase PATH-SHI-EH-LP-036, PATH-SHI-EH-LP-039	
Tissues prepared as above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Routine Histopathology examinations to assist in clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following BMS Dissection manual; LP-051, LP-100 Decalcification of Paediatric and adult calcified tissue SOP Downdraft bench. PATH-SHI-GEN-LP-037 Leica Peloris 3 Tissue Processor PATH-BSD-LP-092 Leica ASP300S Tissue Processor PATH-BSD-LP-009 Leica EH1150 Embedding Centres LP-207 Leica RM2235 microtomes LP-007 Leica RM2255 microtomes LP-007 Shandon Finesse microtomes LP-007 Leica Spectra ST LP-007 Leica CV5030 Coverslipper LP-184	A
Routine paraffin sections	Identification of basophilic and eosinophilic structures	Routine staining (H&E) LP-184	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Routine Histopathology examinations to assist in Neuro clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following	A
Paraffin sections of; Brain, CNS, PNS & Temporal artery Muscle	Identification of basophilic and eosinophilic structures	Routine staining (H&E) Manual method using LP-058 LP-188	
Paraffin sections	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities</u>	In House documented manual methods and manufacturer's instructions using Manual methods and Microscopy	A
	Acid Mucins	Alcian Blue (pH2.5): LP-071	
	Amyloid	Highman's Congo Red: LP-151	
	Amyloid	Sirius Red: PATH-SS-LP-009	
	Amyloid	Thioflavine T: PATH-SS-LP-040	
	Basement Membrane	Jones' Methenamine Silver - Light Green: LP-151	
	Calcium	Von Kossa: PATH-SS-LP-042	
	Blood cell differentiation	Giemsa: LP-147	
	Collagen/Muscle	Masson Trichrome (Microwave): LP-170	
	Copper/Hepatitis B antigen	Shikata's Orcein: PATH-SS-LP-038	
	Ferric Iron	Perl's Prussian Blue: LP-169	
	Fungi, PCP	Grocott's (Microwave): LP-171	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In House documented manual methods and manufacturer's instructions using Manual methods and Microscopy	A
Paraffin sections (cont'd)	Gram +ve/-ve organisms	Gram: LP-081	
	Lipofuscin (Tubercle Bacilli (+ other mycobacteria)	Ziehl Neelsen (ZN) PATH-SS-LP-006	
	Mast Cells	Toluidine Blue LP-146	
	Melanin	Masson Fontana (Microwave) PATH-SS-LP-032	
	Mucin/Glycogen differentiation	Southgate's Mucicarmine LP-193	
	<i>Mycobacterium Leprae</i> (+ other mycobacteria)	Wade Fite PATH-SS-LP-043	
	Reticulin Fibres	Gordon and Sweets Retic LP-172	
	Spirochaetes	Warthin Starry LP-149	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In House documented methods and manufacturer's instructions using Automated Roche VentanaBenchmark SS staining machine and Microscopy LP-041	A
Paraffin sections (cont'd)	Acid Mucins	Alcian Blue staining kit	
	Acid mucins/Neutral polysaccharides	Alcian Blue PAS staining kit	
	Amyloid	Congo Red staining kit	
	Glycogen removal	Diastase removal kit for ABPAS Diastase and PAS Diastase	
	Leukocyte differentiation	Giemsa staining kit	
	Fungi, PCP	GMS II staining kit	
	Ferric Iron	Iron staining kit for Perls Prussian Blue	
	Glomerular basement membrane	Jones staining kit	
	Glycogen	PAS staining kit	
	Reticular fibres	Reticulum II staining kit	
	Connective Tissue, Muscle and Collagen Fibres	Trichrome staining kit for Masson Trichrome	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	Special staining of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)	In House documented methods and manufacturer's instructions using Automated Roche Ventana Benchmark SS staining machine and Microscopy LP-041	A
	<u>Enzyme Histochemistry examinations to assist in detection of clinical abnormalities</u>	Manual methods and microscopy	
Paraffin sections of;Brain & CNS	Myelin, Neurones and NISSL substance	Luxol fast blue/Cresyl violet: LP-194	
	Neurones and NISSL substance	Cresyl violet: PATH-SHI-NP-LP-033	
Paraffin sections of;Brain, CNS & PNS	Nerve Fibres	Palmgren: PATH-SHI-NP-LP-032	
Paraffin sections of;Brain	senile plaques & neurofibrillary tangles	Modified Bielschowsky: LP-192	
	neurofibrillary tangles & plaques	Gallayas: PATH-SHI-NP-LP-035	
Frozen sections of;Muscle	General morphology, mitochondrial activity, nemaline rods, rimmed vacuoles	Modified Gomori's Trichrome - Corning 140 pH meter:PATH- SHI-EH-LP-010& 030	
	Lipid	Sudan Black B: PATH-SHI-EH-LP-011	
	Lipid	Oil Red O: PATH-SHI-EH-LP-012	
	Glycogen	PAS & PAS Diastase : LP-086	
	TR Reductase -	NADH -using Corning 140 pH meter and microscopy: PATH-SHI-EH-LP-014 & 030	
	Lysosomal storage disorders &vascular myopathies	Acid Phosphatase activity: PATH-SHI-EH-LP-015	
	Fibre typing - fibres with abnormal mitochondria.	Succinate dehydrogenase: PATH-SHI-EH-LP-016	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Enzyme Histochemistry examinations to assist in detection of clinical abnormalities (cont'd)</u>	Manual methods and microscopy	A
	Fibre type pattern, fibres devoid of activity	Cytochrome oxidase -PATH-SHI-EH-LP-017, 030 & 036	
	Fibres devoid of cytochrome oxidase activity	Combined COX/ SD - PATH-SHI-EH-LP-018, 030 & 036	
	Enzyme activity absent in McArdle's disease	Myophosphorylase -PATH-SHI-EH-LP-019, 030 & 036	
Frozen sections of;Muscle	Fibre typing, distribution and involvement of fibre types and their sub-types	Adenosine Tri-phosphate - PATH-SHI-EH-LP-020, 021, 030 & 036 Cytochrome oxidase -PATH-SHI-EH-LP-017, 030 & 036	
Slides as prepared above	Exertional Myalgia Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u> Alpha 1 antitrypsin-liver disease Adeno carcinoma - CEA antigen Adenocarcinoma AMACR Protein Androgen receptor +ve cells Anti-Mullerian Hormone <u>ATRX mutation</u> <u>BAP1</u> Basal Epithelium Breast LCIS V DCIS - Epithelial cells	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 A-1-Anti trypsin CEA (MONO) CEA(Poly) AMACR Androgen receptor AMH ATRX BAP1 CK34 E-CADHERIN	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers	A
	C4d complement in kidney allograft rejection	C4d	
	C5B9 complement membrane attack complex	C5B9	
	Ca19.9 Antigen	Ca19.9	
	Carcinomas - GCDFP Protein	GCDFP	
	Cell proliferative marker - Dividing Nuclei	KI67	
	Chondroblastoma	K36	
	Chronic Lymphocytic Leukaemia	LEF-1	
	Claudin 4	CLAUDIN4	
	Clear Cell Renal Cell Carcinoma	CAIX	
	Colonic epithelium	CDX2	
	Cytomegalovirus inclusions	CMV	
	Epithelial cells	CK3	
	Epithelial cells	CK12	
Epithelial cells	EMA (Epithelial Membrane Antigen)		
Dermatological and lymphoma disease - Langerhans cells	Langerin		



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers	A
Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Dermatology / lymphoma conditions - Dendritic Cells /Langerhans cells	CD1a	
	Detection of Syphilis	T.Pallidum	
	DNAJB9 for glomerular deposits of FGN fibrils	DNAJB9	
	Dyskaryotic glands	P-TEN	
	EBV virus	EBV-LMP	
	EBNA 2 virus	EBNA2	
	Endocrine cells / islet cell tumours	Glucagon	
	Endocrine cells / islet cell tumours / thyroid Ca/ carcinoid tumours	Chromogranin	
	Endometrial / Mesothelium cells	GLUT-1	
	Endothelial cells / tumours	CD31	
	Endothelial cells / tumours	CD34	



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Von Willebrands enterochromaffin cells Epithelial marker- Meso v Adeno Epithelial Cells Epithelial cells, adenocarcinomas Epithelial cells, adenocarcinomas of GI tract and pancreas	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 Factor 8 Serotonin 5HT ERA(MOC 31) B-Catenin Ber-EP4 Villin	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers	A
Paraffin sections (cont'd)	Erythrocytes	LP-037, LP-039, LP-040, LP-083, LP-162 Glycophorin C	
	Ewing's sarcoma / Lymphoma	CD99	
	Expression of p16 - P16 protein	P16	
	Factor XIII	Factor 13	
	Galectin 3 Protein	Galectin 3	
	<u>Ganglion cells</u>	Vasoactive Intestinal Peptide (VIP)	
	Gastric Epithelium	MUC1	
	Gastric, Intestinal, urothelium epithelium and Merkel cells	CK20	
	Gastrin	Gastrin	
	GATA 3 Binding Protein	Gata-3	
	Germ cell tumours	OCT 3/4	
	Giant cell tumour of bone	G34	
	GIST TUMOURS	CD117 (C-KIT)	
	Interstitial cells of Cajal in GI tract, GIST tumours	DOG-1	
	Glypican 3 Protein	Glypian3	
	Goblet cells	TFE3	
	H3K27M mutation	H3K27M (H3k27me3 Histone)	
	H Pylori positive cells	H Pylori	
	Hairy cell leukaemia	DBA44	
	HB virus infected cells	HB Surface	



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162	A
	HB virus infected cells	HB Core	
	HBME-1	HBME-1	
	Hepatoblastoma / Hepatocarcinoma - Hepatocytes	Hepar-1	
	HHV8 virus	HHV8	
	HPV virus	HPV	
	HSV virus	HSV-1	
	IL4 receptor	STAT6	
	Inhibin Alpha protein	Inhibin	
	Islet cell tumours - islets of Langerhans	Insulin	
	Islet cell in pancreas	Somatostatin	



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Lung Adenocarcinomas Lymphatic Endothelium/ mesothelial cells Lynch Syndrome Markers (HNPCC) C-MYC nuclear protein involved in proliferation and differentiation of cells. - mantle cell lymphomas Anaplastic lymphoma kinase (Human p80 protein) Lysozyme Mismatch Repair (MMR) Protein expression in Endometrial Cancers	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 Napsin A D2-40 MLH-1 MSH2 MSH6 PMS2 c-myc Sox-11 Alk Protein Muramidase MLH-1 MSH-2 MSH6 PMS2	A



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Blastic Plasmacytoid Dendritic Cell Tumours Normal, early progenitor lymphoid cells; B lymphocytes in germinal centres B lymphocytes Key molecule for B cell activation and growth Follicular dendritic cells, B cells Follicular center cell lymphoma; identify Reed-Sternberg cells Normal & neoplastic B lymphocytes Pan-B-cell antigens Pluripotent germ cell tumours Pre-B cells Dendritic Cells and Interleukin 3 receptor a-chain in Monocytes; neutrophils; basophils Follicular Dendritic Cells Germinal centre Cells	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 CD303 TCL-1 CD10 CD20 CD23 CD35 CD75 CD79a CD19 CD22 OCT 2 PAX 5 CD123 CD21 BCL6	A



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> B cell populations in reactive lymphoid tissues (germinal b cless + plasma cells) Hairy cell leukaemia IL2r Receptor Mantle zone B lymphocytes & inter-follicular T lymphocytes and other rare tumour types T & B lymphocytes Multiple myeloma oncogene-1 Mantle Cells Mast Cells Megakaryocytes Megakaryocytes/Platelets Monocytes MTAP Myeloid cells Neuroblastoma tumour cells NKX3.1 protein	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 BOB-1 Annexin-1 CD25 BCL2 CD45 MUM-1 Cyclin D1 Mast cell tryptase CD42b CD61 CD33 MTAP Myeloperoxidase PHOX2B NKX3.1	A



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Issue No: 013 Issue date: 07 March 2025

Testing performed by the Organisation at the locations specified

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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Paraffin sections (cont'd)</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>PLA2R</p> <p>Plasma Cells</p> <p>Plasma cells and related lymphoid cells containing IgA</p> <p>Plasma cells and related lymphoid cells containing IgG</p> <p>Plasma cells and related lymphoid cells containing IgD</p> <p>Plasma cells and related lymphoid cells containing IgM</p>	<p>In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers</p> <p>LP-037, LP-039, LP-040, LP-083, LP-162</p> <p>PLA2R</p> <p>CD138</p> <p>IgA</p> <p>IgG</p> <p>IgD</p> <p>IgM</p>	<p>A</p>



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Plasma cells and related lymphoid cells containing IgG4 Plasma cells and related lymphoid cells containing Kappa light chains Plasma cells and related lymphoid cells containing Lambda light chains –Reed Stenberg Cells T cells- Terminal deoxynucleotidyl transferase in thymic and small number of bone marrow cortical lymphocytes Cytolytic lymphocytes, cytotoxic T- cells T Cell antigen receptor Circulating T lymphocytes T lymphocytes; helper/inducer T lymphocytes Helper/inducer T lymphocytes	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 IgG4 Kappa light chain Lambda Light chain CD30 TDT TIA Delta TCR CD2 CD3 CD4	A



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Issue No: 013 **Issue date:** 07 March 2025

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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Germinal centre T lymphocytes; B lymphocyte subset Peripheral blood T lymphocytes; NK cells; thymocytes Suppressor/cytotoxic T lymphocytes T lymphocytes; myeloid lineage cells Cytotoxic T Lymphocytes, Natural killer cells Histiocytes NK Cells -Reed Stenberg Cells/Granulocytes Cell adhesion in gut Macrophages; monocytes; granulocytes Melanocytes Melanocytes	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 CD5 CD7 CD8 CD43 Granzyme B CD11C CD57 CD15 (leum1) ATPase CD68(PGM1) MITF HMB45	A



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Issue No: 013 Issue date: 07 March 2025

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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Melanocytes Melanomas / Melanocytes Normal and neoplastic melanocytes; macrophages; adipocytes; nerve fibres; many tumour types Mesenchymal cells Mesenchymal cells Mesothelial / neuron cells Mesothelial cells Mesothelioma - Mesothelial Cells MGMT Protein Mucin 4 protein Muscle cells Succinate Dehydrogenase Subunit B gene mutations Smooth Muscle Cells Smooth muscle cells Myeloid cells, lymphocytes and macrophages Nervous tissue and neuroendocrine cells Neuroblastoma - cytoplasmic in most cells	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 Melan A Tyrosinase S100 Tenascin Vimentin Calretinin Thrombo CD141 Mesothelin MGMT MUC-4 Muscle Specific Actin SDHB Caldesmon Calponin TRAP-1 NSE Neuroblastoma	A



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Neurofibrillary tangles in Alzheimer's disease neurones, axons, dendrites. Neurones/ nerves/neuroendocrine cells Neurons, Neuroendocrine cells Glial fibrillary acidic protein (Neural cells) Astrocytes Neuronal cell marker Neuronal intermediate filament Lewy bodies / degenerative neurons presence of Amyloid Amyloid Used to aid identification of gliomas NK cells, Schwann cells, neuroendocrine cells, T lymphocytes Non keratinised, stratified squamous epithelial cells / Mesotheliomas Ovarian & Wilms tumour	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 TAU Tyrosinase Hydroxylase PGP 9.5 Synaptophysin GFAP Neun N Neurofilament A-SYN BAPP B-Amyloid IDH1 CD56 CK5 WT1	A



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Ovarian Panel - Ca125 Antigen Ovarian Tumours - Nuclear Antigen P Jirovec Organisms P24 expression P53 expression P57 protein Pan Epithelial marker - Epithelial Cells Pan Muscle marker Pancreatic Polypeptide Parafollicular cells in thyroid Parathyroid Hormone Parvo virus Pituitary tumours - Gonadotrophic cells Follicle Stimulating Hormone Human Growth Hormone Leutinizing Hormone Prolactin hormone Simian Virus 40 Thyroid stimulating hormone Ubiquitin	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 Ca125 PAX 8 PnemocytosisJirovec P24 P53 P57 AE1/AE3 Desmin PPP Calcitonin Parathyroid Hormone Parvo virus ACTH FSH HGH LH PROLACTIN SV40 TSH Ubiquitin	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers	A
Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Pneumocytes / alveolar macrophages	Surfactant Apolipoprotein	
	Presence of Amyloid - Amyloid	Amyloid A	
	Presence of Amyloid - Amyloid	Amyloid P	
	Prostate secretory and ductal epithelium	PSA	
	Prostate secretory and ductal epithelium	PSAP	
	Renal cell Carcinomas - apical surface of cortical tubules	RCC	
	Rhabdoid tumours	INI-1(BAF-47)	
	Rhabdomyosarcoma marker - skeletal Muscle	MyoD1	
	Skeletal muscle	Myogenin	
	Simple and glandular epithelium	Cam 5.2	
	Smooth muscle cells	SMM	
	Simple, glandular & transitional epithelia	CK7	
	Cytokeratin marker	CK10	
	Epithelia	CK19	
	Pan Cytokeratin marker	MNF-116	



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HUMAN BODY FLUIDS and TISSUES (cont'd) Paraffin sections (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u> Hair follicles, basal keratinocytes in stratified epithelium (various tissue/organs), myoepithelial cells (breast and salivary gland), thyroid oncocytes Squamous cell carcinoma - Basal Epithelium Squamous cell carcinoma - Epithelial cells SOX10 Stratified squamous epithelium, basal cells, mesotheliomas Striated muscle Syncytiotrophoblasts T Cells T Lymphocytes Thyroglobulin producing cells Toxoplasma Trophoblastic disease/ Germ cell tumours - syncytiotrophoblasts Thyroid and lung tumours WAF1 Yolk sac / Germ Cell tumours - A-Fetalprotein	In-House documented procedures and manufacturer instructions using Leica Bond 3 Immunostainers LP-037, LP-039, LP-040, LP-083, LP-162 CK14 P63 P40 SOX10 CK5/6 Sarcomeric actin PLAP PD1 Beta -F1 Thyroglobulin Toxoplasma Beta HCG TTF-1 P21 (WAF) a-1-Fetal protein	A



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<p>HUMAN BODY FLUIDS and TISSUES (cont'd)</p> <p>Slides as prepared above</p>	<p><u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u></p> <p>Morphological assessment and interpretation/diagnosis Reporting</p> <p>Non small cell lung cancers</p>	<p>SOP PATH-MD-LP-004</p> <p>Ventana Benchmark Ultra. In-House documented procedures and manufacturer instructions. PATH-ICC-LP-019, & LP-168</p> <p>ALK ROS1</p>	



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Issue No: 013 **Issue date:** 07 March 2025

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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry of Histopathology examinations to assist in detection of clinical abnormalities (cont'd)</u>		
Paraffin sections	Cellular oestrogen receptor expression	Oestrogen receptor (ER)	
	Cellular progesterone receptor expression	Progesterone receptor (PR)	
	HER2	HER2	
	HER-2 (clone 4B5) (Gastric and Oesophageal cancers)	HER-2 (clone 4B5)	
	In situ hybridization (ISH) of Histopathology examinations to assist in detection of clinical abnormalities		
	Detection of mRNA in Lymphomas;-ISH Markers		
	Epstein Barr Encoded RNA expressing cells	EBER probe	
	Kappa Mrna	Inform Kappa probe	
	Lambda mRNA	Inform Lambda probe	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	Dako P/T module and Autostainer Link 48: LP-013	
	Non small cell lung cancer and Head and neck SCC	PDL-1	
	Gastric and Oesophageal cancers	PD-L1 (clones 22C3 and 28-8)	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunofluorescence of Histopathology examinations to assist in detection of clinical abnormalities</u>	Manual staining. In-House documented procedures. PATH-IMM-LP-001, 003 & 016	A
Renal/Skin samples	Deposition of IgG Deposition of IgA Deposition of IgM Deposition of C3 Deposition of Kappa Deposition of Lambda Deposition of Fibrinogen Deposition of C1Q	IgG-FITC IgA-FITC IgM-FITC C3-FITC Kappa-FITC Lambda-FITC Fibrinogen-FITC C1Q-FITC	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	
Muscle fibres	<u>Immunocytochemistry for Demonstration of muscle fibre architecture</u>	Menarini Intellipath Immunostainer PATH-ICC-LP--013	A
Frozen tissue	Cytoskeletal protein	Spectrin	
	Inflammatory myopathies	Utrophin	
	Inflammatory myopathies and some muscular dystrophies	HLA	
	Limb-girdle muscular dystrophy	DYS1	
	Limb-girdle muscular dystrophy	DYS2	
	Limb-girdle muscular dystrophy	DYS3	
	Sarcoglycanopathies	SARC A	
	Sarcoglycanopathies	SARC B	
	Sarcoglycanopathies	SARC G	
	Sarcoglycanopathies	SARC D	
	Congenital muscular dystrophies	LAM A2	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Immunocytochemistry for Demonstration of muscle fibre architecture (cont'd)</u>	Menarini Intellipath Immunostainer PATH-ICC-LP--013	A
Muscle fibres	Congenital muscular dystrophies	LAM A5	
	Congenital muscular dystrophies	LAM B1	
	Congenital muscular dystrophies	LAM B2	
	Congenital muscular dystrophies	HAM 1	
	Congenital muscular dystrophies	HAM 2	
	Rare muscle diseases	Emerin	
	Neonatal muscle myosin	Neomyosin	
FFPE	CXCL13	CXCL13	
Slides as prepared above	Morphological assessment and interpretation/diagnosis	Microscopy SOP PATH-MD-LP-004	
	<u>Electron Microscopy examinations to assist in detection of clinical abnormalities</u>	In house documented procedure & manufacturer's instructions using	A
Tissue, fluids and samples		Tissue processing & embedding Leica EMTP & Genlab oven, Sigma centrifuge and Eppendorf mini-spin: LP-185, LP-189, PATH-EM-LP-117	
		Tissue sectioning for light and electron microscopy using Leica EM UC7, Leica KMR3 , Leica EM MP: LP-012, PATH-EM-LP-108 & PATH-EM-LP-117	
	Demonstration of general tissue architecture	Tissue staining for light microscopy manual methods -Toluidine blue LP-019	



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Electron Microscopy examinations to assist in detection of clinical abnormalities (cont'd)</u>	In house documented procedure & manufacturer's instructions using	A
Tissue, fluids and samples (cont'd)	Contrast enhancement of tissue architecture of ultrathin sections	Contrast enhancement ; -manual methods and microscopy ; - Uranyl acetate and Reynold lead citrate LP-019	
	Detection of abnormal cells	Electron microscopic analysis including digital imaging using FEI Tecnai& Hitachi PATH-EM-LP-111, PATH-EM-LP-122, LP-187, LP-103 & LP-165	
Fresh Samples of ciliated Epithelium	Primary Ciliary Dyskinesia	High speed video analysis of Ciliaiil Samples: LP-108	
Slides as prepared above	Morphological assessment and interpretation/diagnosis	Microscopy SOP PATH-MD-LP-004	
End			