

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



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### NHS Greater Glasgow & Clyde

Issue No: 014 Issue date: 27 June 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
<b>Address</b> 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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**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 &amp; 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>	



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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 &amp; 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>	A



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HUMAN BODY FLUIDS and TISSUES (cont'd)	<u>Frozen Section Histology Examinations &amp; Touch Preparations to assist in clinical investigations</u>	In House documented procedure & manufacturer's instructions using the following	
Fresh Tissue	Detection of abnormal cells	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;	Identification of basophilic and eosinophilic structures	Routine staining (H&E)	
Brain, CNS, PNS & Temporal artery		Manual method using LP-058	
Muscle		LP-188	
	<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
Paraffin sections	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	
	Acid mucins	Roche Southgate's Mucicarmin Kit	
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	Gallay: 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
Frozen sections of;Muscle	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	
Slides as prepared above	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	
	Exertional Myalgia		
	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	



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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
Paraffin sections		LP-037, LP-039, LP-040, LP-083, LP-162	
	Alpha 1 antitrypsin-liver disease	A-1-Anti trypsin	
	Adeno carcinoma - CEA antigen	CEA (MONO)	
	Adenocarcinoma	CEA(Poly)	
	AMACR Protein	AMACR	
	Androgen receptor +ve cells	Androgen receptor	
	Anti-Mullerian Hormone	AMH	
	<u>ATRX mutation</u>	ATRX	
	<u>BAP1</u>	BAP1	
	Basal Epithelium	CK34	
	Breast LCIS V DCIS - Epithelial cells	E-CADHERIN	



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	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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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Von Willebrands	Factor 8	
	enterochromaffin cells	Serotonin 5HT	
	Epithelial marker- Meso v Adeno	ERA(MOC 31)	
	Epithelial Cells	B-Catenin	
	Epithelial cells, adenocarcinomas	Ber-EP4	
	Epithelial cells, adenocarcinomas of GI tract and pancreas	Villin	





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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Erythrocytes	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	Glypican3	
	Goblet cells	TFE3	
	H3K27M mutation	H3K27M (H3k27me3 Histone)	
	H Pylori positive cells	H Pylori	
	Hairy cell leukaemia	DBA44	



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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	HB virus infected cells	HB Surface	
	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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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Lung Adenocarcinomas	Napsin A	
	Lymphatic Endothelium/ mesothelial cells	D2-40	
	Lynch Syndrome Markers (HNPCC)	MLH-1 MSH2 MSH6 PMS2	
	C-MYC nuclear protein involved in proliferation and differentiation of cells.	c-myc	
	- mantle cell lymphomas	Sox-11	
	Anaplastic lymphoma kinase (Human p80 protein)	Alk Protein	
	Lysozyme	Muramidase	
	Mismatch Repair (MMR) Protein expression in Endometrial Cancers	MLH-1 MSH-2 MSH6 PMS2	



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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	
	Blastic Plasmacytoid Dendritic Cell Tumours	CD303 TCL-1	
	Normal, early progenitor lymphoid cells; B lymphocytes in germinal centres	CD10	
	B lymphocytes	CD20	
	Key molecule for B cell activation and growth	CD23	
	Follicular dendritic cells, B cells	CD35	
	Follicular center cell lymphoma; identify Reed-Sternberg cells	CD75	
	Normal & neoplastic B lymphocytes	CD79a	
	Pan-B-cell antigens	CD19 CD22	
	Pluripotent germ cell tumours	OCT 2	
	Pre-B cells	PAX 5	
	Dendritic Cells and Interleukin 3 receptor α-chain in Monocytes; neutrophils; basophils	CD123	
	Follicular Dendritic Cells	CD21	
	Germinal centre Cells	BCL6	



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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	B cell populations in reactive lymphoid tissues ( germinal b cless + plasma cells)	BOB-1	
	Hairy cell leukaemia	Annexin-1	
	IL2r Receptor	CD25	
	Mantle zone B lymphocytes & inter-follicular T lymphocytes and other rare tumour types	BCL2	
	T & B lymphocytes	CD45	
	Multiple myeloma oncogene-1	MUM-1	
	Mantle Cells	Cyclin D1	
	Mast Cells	Mast cell tryptase	
	Megakaryocytes	CD42b	
	Megakaryocytes/Platelets	CD61	
	Monocytes	CD33	
	MTAP	MTAP	
	Myeloid cells	Myeloperoxidase	
	Neuroblastoma tumour cells	PHOX2B	
	NKX3.1 protein	NKX3.1	



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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	PLA2R	PLA2R	
	Plasma Cells	CD138	
	Plasma cells and related lymphoid cells containing IgA	IgA	
	Plasma cells and related lymphoid cells containing IgG	IgG	
	Plasma cells and related lymphoid cells containing IgD	IgD	
	Plasma cells and related lymphoid cells containing IgM	IgM	



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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Plasma cells and related lymphoid cells containing IgG4	IgG4	
	Plasma cells and related lymphoid cells containing Kappa light chains	Kappa light chain	
	Plasma cells and related lymphoid cells containing Lambda light chains	Lambda Light chain	
	–Reed Stenberg Cells	CD30	
	T cells- Terminal deoxynucleotidyl transferase in thymic and small number of bone marrow cortical lymphocytes	TDT	
	Cytolytic lymphocytes, cytotoxic T- cells	TIA	
	T Cell antigen receptor	Delta TCR	
	Circulating T lymphocytes	CD2	
	T lymphocytes; helper/inducer T lymphocytes	CD3	
	Helper/inducer T lymphocytes	CD4	



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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Germinal centre T lymphocytes; B lymphocyte subset	CD5	
	Peripheral blood T lymphocytes; NK cells; thymocytes	CD7	
	Suppressor/cytotoxic T lymphocytes	CD8	
	T lymphocytes; myeloid lineage cells	CD43	
	Cytotoxic T Lymphocytes, Natural killer cells	Granzyme B	
	Histiocytes	CD11C	
	NK Cells	CD57	
	-Reed Stenberg Cells/Granulocytes	CD15 (leum1)	
	Cell adhesion in gut	ATPase	
	Macrophages; monocytes; granulocytes	CD68(PGM1)	
	Melanocytes	MITF	
	Melanocytes	HMB45	





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Paraffin sections (cont'd)		LP-037, LP-039, LP-040, LP-083, LP-162	
	Melanocytes	Melan A	
	Melanomas / Melanocytes	Tyrosinase	
	Normal and neoplastic melanocytes; macrophages; adipocytes; nerve fibres; many tumour types	S100	
	Mesenchymal cells	Tenascin	
	Mesenchymal cells	Vimentin	
	Mesothelial / neuron cells	Calretinin	
	Mesothelial cells	Thrombo CD141	
	Mesothelioma - Mesothelial Cells	Mesothelin	
	MGMT Protein	MGMT	
	Mucin 4 protein	MUC-4	
	Muscle cells	Muscle Specific Actin	
	Succinate Dehydrogenase Subunit B gene mutations	SDHB	
	Smooth Muscle Cells	Caldesmon	
	Smooth muscle cells	Calponin	
	Myeloid cells, lymphocytes and macrophages	TRAP-1	
	Nervous tissue and neuroendocrine cells	NSE	
	Neuroblastoma - cytoplasmic in most cells	Neuroblastoma	



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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	
	Neurofibrillary tangles in Alzheimer's disease	TAU	
	neurones, axons, dendrites.	Tyrosinase Hydroxylase	
	Neurones/ nerves/neuroendocrine cells	PGP 9.5	
	Neurons, Neuroendocrine cells	Synaptophysin	
	Glial fibrillary acidic protein (Neural cells) Astrocytes	GFAP	
	Neuronal cell marker	Neun N	
	Neuronal intermediate filament	Neurofilament	
	Lewy bodies / degenerative neurons	A-SYN	
	presence of Amyloid	BAPP	
	Amyloid	B-Amyloid	
	Used to aid identification of gliomas	IDH1	
	NK cells, Schwann cells, neuroendocrine cells, T lymphocytes	CD56	
	Non keratinised, stratified squamous epithelial cells / Mesotheliomas	CK5	
	Ovarian & Wilms tumour	WT1	



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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	
	Ovarian Panel - Ca125 Antigen	Ca125	
	Ovarian Tumours - Nuclear Antigen	PAX 8	
	P Jirovec Organisms	PnemocytisisJirovec	
	P24 expression	P24	
	P53 expression	P53	
	P57 protein	P57	
	Pan Epithelial marker - Epithelial Cells	AE1/AE3	
	Pan Muscle marker	Desmin	
	Pancreatic Polypeptide	PPP	
	Parafollicular cells in thyroid	Calcitonin	
	Parathyroid Hormone	Parathyroid Hormone	
	Parvo virus	Parvo virus	
	Pituitary tumours - Gonadotrophic cells	ACTH	
	Follicle Stimulating Hormone	FSH	
	Human Growth Hormone	HGH	
	Leutinizing Hormone	LH	
	Prolactin hormone	PROLACTIN	
	Simian Virus 40	SV40	
	Thyroid stimulating hormone	TSH	
	Ubiquitin	Ubiquitin	



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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)	<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	
	Hair follicles, basal keratinocytes in stratified epithelium (various tissue/organs), myoepithelial cells (breast and salivary gland), thyroid oncocytes	CK14	
	Squamous cell carcinoma - Basal Epithelium	P63	
	Squamous cell carcinoma - Epithelial cells	P40	
	SOX10	SOX10	
	Stratified squamous epithelium, basal cells, mesotheliomas	CK5/6	
	Striated muscle	Sarcomeric actin	
	Syncytiotrophoblasts	PLAP	
	T Cells	PD1	
	T Lymphocytes	Beta -F1	
	Thyroglobulin producing cells	Thyroglobulin	
	Toxoplasma	Toxoplasma	
	Trophoblastic disease/ Germ cell tumours - syncytiotrophoblasts	Beta HCG	
	Thyroid and lung tumours	TTF-1	
	WAF1	P21 (WAF)	
	Yolk sac / Germ Cell tumours - A-Fetalprotein	a-1-Fetal protein	



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	Testicular and ovarian germ cell tumours	Nut-1	
	Subtyping of sinonasal carcinomas	SMARC A4	
	Evaluation of prostate glands and identification of cancerous foci	PIN4	
	Vascular markers for the diagnosis of angiosarcomas	FLI and ERG	
	Differentiate between melanomas and atypical pigmented skin lesions	PRAME	
Slides as prepared above	Morphological assessment and interpretation/diagnosis Reporting	SOP PATH-MD-LP-004	
	Non small cell lung cancers	Ventana Benchmark Ultra. In-House documented procedures and manufacturer instructions. PATH-ICC-LP-019, & LP-168  ALK ROS1	



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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	
	<u>Immunocytochemistry for Demonstration of muscle fibre architecture</u>	Menarini Intellipath Immunostainer PATH-ICC-LP--013	A
Muscle fibres	Cytoskeletal protein	Spectrin	
	Inflammatory myopathies	Utrophin	
Frozen tissue	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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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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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 Cilial Samples: LP-108	
Slides as prepared above	Morphological assessment and interpretation/diagnosis	Microscopy SOP PATH-MD-LP-004	
End			