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Completed by:

PATIENT INFORMATION Pleas	e Provide All I	nformation below (Nam	e on Requ	isition MUST M	latch Name	on Specimen EX	(ACTLY!)		FOR LAB USE ONLY
LAST NAME (Please Print Legibly)	FIRST	MIDDLE	PATIENT II	O#		SEX M□ F□	DATE OF BIRTH [ N	M / DD / YYYY ]	LAB ID:
PATIENT ADDRESS		CITY		STATE	ZIP CODE		HOME PHONE		RCV'D TIME/DATE:
									SPECIMENS RCV'D
COLLECTION DATE:	TIME:			PATIENT MRN.			NAME OF GUARANTOR		Tissue
		□ P.M.							Nail(s)
REQUESTING PHYSICIAN [Last Nam	e, First Name]			BILLING INF		(Required) PATIENT/	Complete or r	rovide a photo copy	Scrapings
				0	FFICE	INSURANCE		's insurance card(s)	Fluid
				PRIMARY INSURAN	LE CARRIER		2 - INSURANCE CARRIER		Sterile container,
				POLICY/ MEMBER/ I	MEDICARE NUMBI	ER	2 <sup>nd</sup> - POLICY/ MEMBER/ ME	DICARE NUMBER	Sterile container with moistened gauze
				GROUP NUMBER/ P	ERSONAL CODE		2 <sup>nd</sup> - GROUP NUMBER/ PER	SONAL CODE	Sterile container with
				POLICY HOLDER			2 <sup>nd</sup> - POLICY HOLDER		10% buffered formalin
Provider signature:				EMPLOYER			2 <sup>nd</sup> - EMPLOYER		DIF: Michel's media or Zeus solution
CONSULTING COPY TO PHYSICIAN( (COMPLETE MAILING ADDRESS or FAX I			ORT)						ExCell Plus™ container
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] Breast Prognostic Pa		88360x3		7-14 da	ys.				
ER/PR, HER2, IHC				IHC an	d Special	Stains Tech	nical Only	ICD	10
Reflex to Her2 Fish witl	h Path Int	erp			_	ical Only	•	88342.TCx2_	
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Solid Tumor, Molecula	r Testing								
Lung Panel NGS	8		PDL	-1 (28-8 ph	armDX b	y IHC w/in	terp Opdivo)		
Melanoma Panel	NGS			_		•		ΓPS) Tecentriq a	ınd
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		ombined Positive S		•					

ORDER NAME	ANTIBODY	SPECIFICITY	NOTES
ACTIN HHF 35	ACTIN MUSCLE SPECIFIC (HHF 35)	ACTIN MYOFILAMENTS	
	ACTIN SMOOTH MUSCLE (1A4)	SMOOTH MUSCLE ACTINCAN DIFFERENTIATE SMOOTH MUSCLE FROM SKELETAL MUSCLE IN	
ACTIN 1A4		TUMORS	
	ADIPOPHILIN (RABBIT POLYCLONAL/CELL MARQUE)	LIPID STORAGE DROPLETS; HELPFUL IN IDENTIFICATION TUMORS WITH SEBACEOUS	
ADIPOPHILIN		DIFFERENTIATION INCLUDING SEBACEOUS CARCINOMAS.	TUMORS WITH SEBACEOUS DIFFERENTIATION
ALK1	ALK1	NPM-ALK CHIMERIC PROTEIN IN SUBSET OF ALCL	Pos in subset of ALCL
AFP	ALPHA FETO PROTEIN	ALPHA FETOPROTEIN	
ANACAR	AMACR RASEMASE (P504S)	ENZYME OVEREXPRESSED IN MALIGNANT PROSTATE TISSUE; MAY BE POS IN NEPHROGENIC	Desitive in High grade DIM and prostatic adenges reinama
AMCAR	ANDROGEN RECEPTOR (SP107) RAB MONO	ADENOMA (AJSP 2004);  ANDROGEN RECEPTOR (nuclear stain); •Expressed variably by both ER / PR+ as well as ER / PR- breas	Positive in High grade PIN and prostatic adenocarcinoma.
	ANDROGEN RECEPTOR (SP107) RAB MONO	cancers; Most useful for triple negative breast cancer, luminal androgen subtype; Predicts favorable	for triple negative breast cancer, luminal androgen subtype; Predicts favorable
		prognosis in early stage disease based on current studies; Salivary Duct adenoca generally positive.	prognosis in early stage disease based on current studies; Salivary Duct adenoca
Androgen Receptor (SP107)		prognosis in early stage disease sused on earlest stadies, salitary state adenote generally positive.	generally positive.
ANNEXIN	ANNEXIN I (CLONE 29)	HAIRY CELL LEUKEMIA, SOME T CELLS.	HAIRY CELL LEUKEMIA
	ARG1 (SP156 RABBIT MONO)	Identification of HCC	
ARG1			MORE SENSITIVE THAN HEPPAR1 IN IDENTIFICATION OF HIGHER GRADE HCC.
	ATRX GENE (POLYCLONAL SIGMA)	LOSS OF EXPRESSION PREDICTS MUTATION OF ATRX REMODELING GENES; CLOSELY ASSOCIATED	LOSS OF EXPRESSION ASSOCIATED WITH GLIAL NEOPLASM; LOSS NOT SEEN IN
ATRX GENE		WITH IDH1 MUT AND TP53 MUT	OLIGO.
	B72.3 (TAG-72)	ONCOGENIC PROTEIN SEEN PRIMARILY IN ADENOCARCINOMA	Positive in greater than 80% of adenocarcinomas from a variety of organs including
			lung and papillary serous tumors; positive in less than 3% of mesothelioma's; still
B72.3			one of the best negative markers for mesothelioma.
L	BAP1 (MONOCLONAL SANTA CRUZ)	DEFICIENT IN CUTANEOUS "BAPOMAS", SOME MESOTHELIOMAS, AND INTRAHEPATIC CHOLANGIOCA	
BAP1	DCI C	FOLLICIII AD DEDIVED I VANDIJOID CELLE	INTRAHEPATIC CHOLANGIOCA
BCL 6	BCL 6	FOLLICULAR DERIVED LYMPHOID CELLS  BCL-2 OVEREXPRESSING CELLS	positive in FCC tumors; can be useful to subcategorize lg cell lymphomas.  helpful in differentiation follicular hyperplasia from follicular lymphoma; when pos,
nci a	bcl-2 (bcl-2/100/D5)	BCL-2 OVEREXPRESSING CELLS	
BCL-2	BER-EP4	MESOTHELIOMA PANEL, POS IN ADENOCA, BCC+, SQ CELL CA NEG.	poorer prognosis in large cell lymphoma
	DEN-EP4	MESOT RELIGIVIA PANEL, POS IN ADENOCA, BCC+, SQ CELL CA NEG.	Nearly all pulmonary adenocarcinomas and serous carcinomas are positive; 35-50%
			of renal cell carcinomas are positive. Up to one third of mesothelioma can show
BER-EP4			weak, focal positivity however. Weak, focal staining therefore less predictive.
DEN ET 1	BETA-CATENIN (POLYCLONAL CELL MARQUE)	BETA CATENIN	Weath, rocal positivity noweres. Weath, rocal staining are close less predicate.
			WHEN MUTATED (E.G. FIBROMATOSIS) DEMONSTRATES NUCLEAR ACCUMULATION.
BETA-CATENIN			USEFUL TO DIFFERENTIATE FIBROMATOSES FROM SCARRING PROCESSES.
	BOB-1 (POLYCLONAL SANTA CRUZ)	B CELL TRANSCRIPTIONAL COACTIVATOR; EXPRESSED VERY EARLY IN B CELL DIFFERENTIATION (LIKE	USEFUL IN RITUXIMAB TREATED B CELL LYMPHOMAS AS WELL AS PLASMABLASTIC
BOB-1		PAX5)	AND EFFUSION RELATED TUMORS.
	C4d POLYCLONAL	C4d SPLIT PRODUCT; POS ON ENDOTHELIAL CELL IN HUMORAL RENAL ALLOGRAFT REJECTION	
C4d			
CA IX	CA IX (CARBONIC ANHYDRASE IX)	CLEAR CELL RCC; NEG IN CHROMOPHOBE CA; INTRAHEPATIC CHOLANGIOCA (ICC)	
CALCITONIN	CALCITONIN	CALCITONIN	
CALDESMON	CALDESMON (h-CDI)	h-caldesmon; smooth muscle and smooth muscle tumors.	SMOOTH MUSCLE CELLS
CAPONIN	CALPONIN (DAKO)  CALRETININ ( RECOMBINANT HUMAN )	SMOOTH MUSCLE CELLS  CALRETININ (CALCIUM BINDING PROTEIN EXPRESSED IN MESOTHELIOMA); GRANULOSA CELL	
	CALRETININ ( RECOMBINANT HOMAN )	TUMORS AND OTHER SEX CORD STROMAL TUMORS	POS IN MESOTHELIOMA; Positive in both epithelioid and in spindle cell mesothelioma's; up to 6% of undifferentiated carcinomas may be positive; 6-10% of
		TOWIORS AND OTHER SEX CORD STROWNE TOWIORS	the lung cancers may be positive; 31-38% of serous carcinomas may be positive; up
			to 4% of renal cell carcinomas are positive; lung squamous cell carcinoma can be
CALRETININ			positive (up to 39%).
	CD 001A	MHC CLASS I GLYCOPROTEIN . CORTICAL THYMOCYTES, LANGERHANS CELLS, INTERDITGITATING	
CD 001A		RETICULUM CELLS	
	CD 002 (LFA-2)	MAJORITY OF T CELLS IN PERIPHERAL LYMPHOID TISSUE, NK CELLS, CORTICAL THYMOCYTES	
CD 002			
CD 003	CD 003 (RAB CLONE 2GV6)	T CELLS	pan T cell marker
CD 004	CD 004 (IF6)	MOUSE	
	CD 005 (CD5/54/F6)	CD5 POS T CELLS, SUBSET OF B CELLS	coexpressed in SLL, and Mantle cell lymphoma; when present in large cell lymphoma
CD 005			considered adverse prognostic feature.
CD 007	CD 007 (CD7-272)	CD 7 POS T CELLS AND NK CELLS	
CD 008	CD 008 (1A5)	MOUSE	Desitive in ECC tumors (both small and la!! tum-tumors)
CD 010	CD 010 (56C6)	CALLA, FOLLICULAR CENTER CELLS, LYMPHOID PROGENITOR CELLS, BURKITTS	Positive in FCC tumors (both small and lg cell type tumors); pos in renal cell ca and hepatocellular ca, endometrial cell ca, and prostate ca.
CD 010	CD 015 (C3D-1)	R.S. CELLS, GRANULOCYTES, EPITHELIAL TUMORS	
CD 015	CD 013 (C3D-1)	n.s. celes, divariologites, efficient folylons	70-75% of lung adenocarcinomas positive; 30-60% serous carcinomas positive; mesothelioma's are negative.
CD 019	CD 019	CD19	mesoniciona s are negative.
CD 020	CD 020 (L26)	B CELLS; RENAL CELL CA; HCC; MYOEPITHELIAL MARKER	B CELLS; RENAL CELL CA; HCC; MYOEPITHELIAL MARKER
CD 021	CD 021 (IF8)	CD21 RECEPTOR, FDC MESHWORK IN GERMINAL CENTERS	C2D RECEPTOR, FDC MESHWORK IN GERMINAL CENTERS
CD 023	CD 023 (1B12)	B CELL SUBSET, POS IN SLL, NEG IN MANTLE CELL	tends to be pos in SLL and neg in Mantle Cell
CD 025	CD 025 (4C9)	INTERLEUKIN-2 RECEPTOR	
CD 030	CD 030 (Ki-1)	R.S. CELLS, Ki 1 LYMPHOMAS	
CD 031	CD 031 (JC/70A) CELL MARQUE	ENDOTHELIAL CELLS AND THEIR TUMORS	
CD 034 (BLASTS)	CD 034 (HEMATOLYMPHOID BLASTS)	HEMATOLYMPHOID STEM CELLS	
CD 034 (SOFT TISSUE)	CD 034 (SOFT TISSUE)	ENDOTHELIAL CELLS; SUBSET OF SOFT TISSUE TUMORS	

ORDER NAME	ANTIBODY	SPECIFICITY	NOTES
CD 043	CD 043 (L60)	T CELLS, IMMATURE GRANULOCYTES, SOME B CELL LYMPHO	coexpressed in SLL, and Mantle cell lymphoma
CD 045	CD 045 (LCA)	LEUKOCYTES	
	CD 056 (1B6)	NCAM SEEN IN NEUROBLASTOMA, NK TYPE T CELL LYMPHOMA , NEUROENDOCRINE TUMORS;	SENSITIVE MARKER FOR SMALL CELL CA.; NEG IN PAP CA OF THYROID (DIAGNOSTIC
CD 056		SENSITIVE MARKER FOR SMALL CELL UNDIF CA.	PATH 2008);
CD 057 CD 061	CD 057 (NK-1; LEU 7)	SUBSET OF CD8 T CELL; NK CELLS; NEUROENDOCRINE TUMORS	CD57 LYMPHOCYTES TYPICALLY SURROUND CD20 POS L&H CELLS IN LPHD
CD 061	CD 061 MEGAKARYOCYTES CD 063 (NK1/C3) SANTA CRUZ	MEGAKARYOCYTES  MOUSE MONOCLONAL; CYTOPLASMIC STAINING PRESENT IN : CELLULAR NEUROTHEKEOMA; ON	
CD 063	CD 003 (NRI/CS) SANTA CROZ	PLATELETS, MONOCYTES, AND MACROPHAGES	CELLULAR NEUROTHEKEOMA
CD 003	CD 068 (PG-M1 DAKO)	MACROPHAGE RESTRICTED FORM OF THE CD68 ANTIGEN WHICH IS A LYSOSOMAL GLYCOPROTEIN,	SCEED IN TECHOTICIES III
	,	MACROPHAGES AND MONOCYTES AND OSTEOCLASTS ARE POS; MYELOID CELLS USUALLY ARE	
		NEGATIVE. M4 AND M5 LEUKEMIAS ARE POS, BUT M1-3 ARE NEG; 10% OF MELANOMAS WERE POS.	
CD 068			
CD 071	CD 071 (MRQ-49)	ERYTHROID PRECURSORS	ERYTHROID PRECURSERS
CD 079A	CD 079A (11E3)	B CELL ANTIGEN. PRESENT ON PLASMACYTOID TUMORS AS WELL	
	CD 099 (HO36-1.1)	EWINGS SARCOMA/PNET, LYMPHOBLASTS, THYMOCYTES, SOLITARY FIB TUM; also positive in wide	
cp 000		variety of acute myeloid leukemia's (not just TDT positive ones); may be quenched somewhat by	
CD 099	CD 447 (- Lit DAVO A4502)	decalcification.  TYROSINE KINASE RECEPTOR C-KIT GENE PRODUCT. MAST CELLS, GIST TUMORS, GLIAL CELLS,	
CD 117	CD 117 (c-kit DAKO A4502)	BREAST DUCT CELLS, SEMINOMA.	
CD 138	CD 138 (B-B4) SEROTEC	PLASMA CELLS AND PLASMA CELL TUMORS. SOME EPITHELIAL AND ENDOTHELIAL CELLS	Plasma cells and plasma cell tumors
CD 150	CD 163 (10D6) ANTI MACROPHAGE	MONOCYTE/MACROPHAGES; GREATER SPECIFICITY COMPARED TO CD68 AS MARKER OF	Traditio cello dila piaditia cell'editiono
	()	DISORDERSOF MONOCYTE/MACROPHAGE ORIGIN; NOT SENSITIVE FOR DX OF MONOCYTIC	
CD 163		DIFFERENTIATION IN AML	
	CD X2 (CDX2-88)	NUCLEAR TRANSCRIPTION FACTOR FOR INTESTINAL CELLS AND TUMORS; COLON AND BLADDER	
		ADENOCA, SOME OVARIAN MUCINOUS, STOMACH;AND PANCREAS. HAS BEEN REPORTED IN SOME	NUCLEAR STAIN; COLON CA, BLADDER ADENOCA, MOST OVARIAN MUCINOUS
		COLLOID LUNG CANCERS (AJSP 2004); EXPRESSION NOT LIMITED TO GI NEUROENDOCRINE TUMORS	ADENOCA, SOME STOMACH AND PANC. CAN ALSO BE POS IN CERVICL ADENOCA
CD X2		(AJSP 2004)	(AJSP2008)
	CEAm (TF-3H8-1)	EPITHELIAL CELLS	80% of lung adenocarcinomas positive; mesothelioma is almost invariably negative;
			one of the best negative markers for mesothelioma. Serous carcinomas of ovary
CEAm	CEAn	CEA BUE CANALICIUI	often negative.
CEAp	CEAp	CEA, BILE CANALICULI	(Polyclonal) shows a "canalicular" pattern of positivity in hepatocellular carcinoma
СЕАР			(Polycional) shows a canalicular pattern of positivity in nepatocellular carcinoma
CHROMOGRANIN A	CHROMOGRANIN A	NEUROENDOCRINE SECRETORY GRANULES	
	CLUSTERIN (APOLIPOPROTEIN J)	POS IN 98% ALCL, NEG IN HD; 100% SENSITIVE FOR FOLLICULAR DENDRITIC CELL TUMORS (MOD	
CLUSTERIN		PATH 2005).	
CMV	CMV (DDG9/CCH2)	CMV	
	c-MYC (Y69 RAB MONO VENTANA)	NUCLEAR STAIN. DIRECTED AGAINST TRANSCRIPTION FACTOR OF CMYC. > OR = 40% STAIN	
c-MYC		CONSIDERED POSITIVE	
COLLAGEN TYPE IV	COLLAGEN TYPE IV (CIV-22 DAKO)	TYPE IV COLLAGEN (BASAL LAMINA)	
CYCLIN D1 CYSTIC DISEASE PROTEIN-15	CYCLIN D1 (RABBIT MONOCLONAL CLONE SP4)	CYCLIN D1 PROTEIN KINASE	expression limited to mantle cell lymphoma
CYSTIC DISEASE PROTEIN-15	CYSTIC DISEASE PROTEIN-15 (GCDFP-15/BRST II) D2-40 (SIGNET)	MAJORITY OF BREAST CA (60-70%); ALSO POS IN SALIVARY GLAND CA, SWEAT GLAND CA. Identifies onco-fetal M2A antigen. Lymphatic endothelial cells; Epithelioid malignant mesothelioma;	
	D2-40 (SIGNET)	germ cell tumors. Weak membranous positivity has been seen in 15 % of serous carcinomas. Up to	
		50% of ovarian cancers may be positive. Up to 30% of lung cancers may show weak positivity.	Positive in epithelioid mesothelioma. Almost always negative in lung
D2-40		, , , , , , , , , , , , , , , , , , , ,	adenocarcinoma; maybe expressed in squamous and serous carcinomas.
DESMIN	DESMIN (NCL-DE-R-11)	INTERMEDIATE FILAMENT IN MUSCLE TISSUE/TUMORS	
DOG1	DOG1 (Clone SP31)	SENSITIVE MARKER OF GIST	MORE SENSITIVE AND SPECIFIC THAN CD117 IN IDENTIFICATION OF GIST.
BCL6/CD3 DS	DOUBLE STAIN (BCL6) BRN/ (CD3) RED		
KAPPA/LAMBDA DS	DOUBLE STAIN [KAPPA (RED)/LAMBDA (BRN)]	KAPPA RED; LAMBDA BROWN	
TTF/NAPSIN DS	DOUBLE STAIN ADENOCARCINOMA (TTF/NAPSIN)	ASSIST MUTH UPDITIS IN CALMUSCULAR MAN INVASION	
KERCOCK/DESMIN DS HCMYO/KER DS	DOUBLE STAIN BLADDER CA INVASION KERCOCK (RED)/DESMIN (BRN)  DOUBLE STAIN BREAST MICROINVASION (HCMYO/KER)	ASSIST WITH UROTHELIAL CA MUSCULAR WALL INVASION  EVALUATION OF DCIS FOR POSSIBLE MICROINVASIVE DISEASE	
P40/CK/5/6 DS	DOUBLE STAIN BREAST MICROINVASION (HCMYO/KER)  DOUBLE STAIN LUNG SQUAMOUS CELL (P40/CK5/6)	EVALUATION OF DUIS FOR POSSIBLE INIUROINVASIVE DISEASE	
MELAN A/Ki-67 DS	DOUBLE STAIN MELAN A (RED)/ KI67 (BRN)		
MELAN A/SOX10 DS	DOUBLE STAIN MELANOMA SENTINEL LN (MELAN A/SOX10)	SOX 10 (BROWN)/MELAN A (RED)	MELANOMA DOUBLE STAIN
PAX5/ANNEXIN DS	DOUBLE STAIN PAX5 (BRN)/ANNEXIN (RED	FOR HAIRY CELL LEUKEMIA	
PAX5/CD3 DS	DOUBLE STAIN PAX5 (BRN)/CD3 (RED)		
PAX5/CD43 DS	DOUBLE STAIN PAX5 (BRN)/CD43 (RD)		
HMKER/AMACR DS	DOUBLE STAIN PROSTATE CA EVAL HMKER/AMACR		
CD20/CD3 DS	DOUBLE STAIN; CD20 (BRN)/CD3 (RED)		
E.M.A	E.M.A. (E29)	EPITHELIA, SEBACEOUS CA+, ECCRINE+, SQ CELL+, BCC-, SPINDLE CELL AFX+.	SEBACEOUS CA+, ECCRINE+, SQ CELL+, BCC-, SPINDLE CELL AFX+.
EBER E CARLIERIN	EBSTEIN BAR VIRUS EARLY RNA (EBER)	EARLY RNA TRANSCRIPT OF EBV INFECTION.	
E-CADHERIN	E-CADHERIN (ECH-6)  ERG (EP111) CELL MARQUE (NUCLEAR STAIN)	CELL ADHESION MOLECULE; POS IN DUCTAL BREAST CELLS VS. LOBULAR ENDOTHELIAL CELL MARKER (BENIGN AND MALIGNANT VASCULAR TUMORS), SUBSET OF PROSTATE	
ERG	LNO (LF 111) CELL MANQUE (NUCLEAN STAIN)	CA, EWINGS SARCOMA (SUBSET); EPITHELIOD SARCOMA	
	ESTROGEN RECEPTOR (RAB MONO SP1)	ESTROGEN RECEPTOR ON TUMORS; MOST OFTEN SEEN IN BREAST, OVARIAN, ENDOMETRIAL,	
ER		CERVICAL, SWEAT GLAND, THYROID, AND NEUROENDROCRINE CA.	Mesotheliomas are invariably ER negative.
FACTOR VIII	FACTOR VIII	ENDOTHELIAL CELLS , MEGAKARYOCYTES, AML (M7)	

ORDER NAME	ANTIBODY	SPECIFICITY	NOTES
FACTOR XIII	FACTOR XIII (CUB 7402)	TISSUE TRANGLUTAMINASE, SM MUSC, DERMAL DENDROCYTES	110125
GASTRIN	GASTRIN (POLYCLONAL)	ANTRAL G CELLS	
	GATA3 (MOUSE CLONE L50-823 CELL MARQUE)	UROTHELIAL CA; BREAST CA; PARATHYROID; CAN ALSO BE POS IN PANC ADENOCA, SQUAMOUS CA	73% OF UROTHELIAL CA POS; 70% BREAST CA POS; 99% PARATHYROID CA POS; NEG
GATA3		OF SKIN; SUBSET OF T LYMPHS	IN LUNG, RENAL, PROSTATE CA.
GFAP	GFAP	ASTROCYTIC GFAP	
GRANZUME B	GRANZYME B (GRB-7 DAKO MONOCLONAL)	ACTIVATED HUMAN CYTOTOXIC T CELLS AND NK CELLS AND THEIR NEOPLASMS.	
HBME-1	HBME-1 (Anti human mesothelial) DAKO	POSITIVE IN MAJORITY OF THYROID MALIGNANCIES	Mesothelial marker
HCG	HCG	PLACENTAL TROPHOBLASTIC TISSUE	
H PYLORI	HELICOBACTER PYLORI	HELICOBACTER PYLORI	
	HEPATOCYTE (OCH1E5) DAKO	Hepatocytes and tumors derived from hepatocytes; Gastric ca may be pos (particularily high grade	
		tumors and signet ring ca) Mod Path 2003; Rare bronchogenic tumors may be pos (2004)	
HEPATOCYTE			Useful in distinguishing primary from metastatic tumors in liver.
HER 2	HER 2 (4B5)	c-erB-2 PROTEIN	
HSV I AND II	HERPES SIMPLEX VIRUS I AND II HMB-45	HERPES SIMPLEX GLYCOCONJUGATE PRESENT IN MELANOSOMES; MELANOMA, DOES NOT SHOW SAME SENSITIVITY	
HMB-45	INVB-45	AS MELAN A.	
HIVIB-45	HUMAN HERPESVIRUS (type 8) [13B10]	Latent nuclear antigen of HHV8; Very high sensitivity and specificity for Kaposi's sarcoma.	
HPV Type 8	THOWANTEN ESTINGS (type o) [15810]	Lateric radical antigen of three, very night sensitivity and specificity for Raposi's sarcoma.	
ти с туре о	HUMAN PLACENTAL LACTOGEN (HPL) DAKO	Human placental lactogen; produced by syncytiOtrophoblastic cells in normal tissues and neoplasms.	
HPL		, , , , , , , , , , , , , , , , , , ,	
	IDH1 (HISTONOVA R132H)	MUTATED ISOCITRATE DEHYDROGENASE.	USUALLY POS IN GR II & III DIFFUSE ASTROCYTOMA; OLIGO; PROGNOSTIC INFO IN
IDH1	, ,		GBM (Capper et al AJSP 2010; 34: 1199)
IgD	IgD	IgD CONTAINING PLASMA CELLS	USEFUL IN IDENTIFICATION OF NLPHD.
IgG	IgG (POLYCLONAL REAGENT)	lgG	Heavy chain restriction
IgG4	IgG4	IgG4 BEARING PLASMA CELLS; AUTOIMMUNE PANCREATITIS	
IgM	IgM (POLYCLONAL REAGENT)	Heavy chain	Heavy chain restriction
INHIBIN ALPHA	INHIBIN ALPHA	STEROID SECRETING TUMORS AND TISSUES	
	INI1 (SMARCB1) NUCLEAR STAIN	DEFICIENT IN EPITHELOID SARCOMA, ATYPICAL TERATOID/RHABDOID TMR, MANY MYOEPITHELIAL	DEFICIENT IN EPITHELOID SARCOMA, ATYPICAL TERATOID/RHABDOID TMR, MANY
		TUMORS, EPITHELOID MPNST (67%) ; SINONASAL BASALOID CARCINOMA	MYOEPITHELIAL TUMORS, EPITHELOID MPNST (67%); SINONASAL BASALOID
INI1			CARCINOMA
KAPPA	KAPPA	KAPPA	light chain
KAPPA mRNA	KAPPA mRNA	Cytoplasmic kappa mRNA	
	KERATIN LMW CK 08 (CAM 5.2)	CYTOKERATIN MOLL #8, 18, AND 19 LOW MOLECULAR WEIGHT KERATIN; SIMPLE EPITHELIA (GLANDS,	
KERATIN LMW CK 08 (CAM 5.2)		HEPATOCYTES ETC.)	May be useful with ae1/ae3, and HMW ker as an epithelial "screen"
WED 4 THE (4 E4 (4 E4 (DOVAC)	KERATIN (AE1/AE3/PCK26)	BROAD SPECTRUM KERATIN SCREENING	USED ALONE MAY MISS CARCINOMAS LMW KER ONLY; PREFER KERCOCKTAIL FOR
KERATIN (AE1/AE3/PCK26) KERATIN BOV MUZ	VEDATINI DOMANIT (MIDE CDECTRINA)	WIDE SPECTRUM SCREENING FOR I.F. KERATIN	KERATIN SCREENING.
KERATIN BOV MOZ	KERATIN BOV MUZ (WIDE SPECTRUM) KERATIN CK 07 (OV-TL ) CELL MARQUE		NEUROENDOCRINE TUMORS CK7 NEG/20 NEG; 10-45% OF BCC POS; >90%
KERATIN CK 07 (OV-TL)	RENATIN CR 07 (0V-1L) CELL WARQUE	DUCTAL AND GLANDULAR EPITHELIUM (PAGET'S CELLS)	SEBACEOUS CA ARE POS.
KERATIN CK 10 (DE-K10)	KERATIN CK 10 (DE-K10)	SUPRABASAL LAYER OF KERATINIZING STRATIFIED EPITHELIA	SEBACEOUS CA ARE 1 US.
KERATIN CK 19	KERATIN CK 19 (CELL MARQUE)	SELECTIVE EXPRESSION IN PAP CA OF THYROID	
KERATIN CK 20 (Ks20.8)	KERATIN CK 20 (Ks20.8)	INTESTINAL EPITHELIUM ETC., MERKLE CELL POS.	CAN DISTINGUISH MET SMALL CELL FROM MERKLE CELL.
, ,	KERATIN CK 5/6 (D5/16B4)	MESOTHELIAL CELLS +, SQUAMOUS CELL CA + ; MOST ADENOCA NEG.; A SUBSET OF BREAST CA	
		("BASALOID") CAN ALSO BE POS, ASSOCIATED WITH POORER PROGNOSIS.	Epithelioid mesotheliomas +, strong positivity in squamous cell ca., may be focal
			positivity in a small minority of adenocarcinomas. Cutaneous adnexal tumors usually
KERATIN CK 5/6 (D5/16B4)			pos while met adeno usually neg. Serous carcinoma is usually positive.
	KERATIN HIGH MOLECULAR WT. (34BE12)	HIGH MOLECULAR WEIGHT KERATIN MOLL #1, 10, 5, 14; BASAL CELL LAYER IN BENIGN PROSTATE	May be usefull with ae1/ae3 and LMW ker as an epithelial "screen"; POS IN SQ CELL
KERATIN HMW (34BE12)		GLANDS ETC.	CA, NEG IN SMALL CELL CA
	KERCOCKTAIL	PANKERATIN COCKTAIL AE1/AE3/CAM5.2 BEST SCREEN FOR HIGH GRADE CA	
KERCOCKTAIL			AE1/3 AND CAM 5.2; BEST SCREEN FOR HIGH GRADE/UNDIFFERENTIATED TUMORS
Ki-67	Ki-67	PRESENT IN CELLS UNDERGOING PROLIFERATION	
LAMBDA	LAMBDA	LAMBDA	light chain
LAMBDA mRNA	LAMBDA mRNA	Cytoplasmic lambda mRNA	
MAMMAGLOBIN MDM3	MAMMAGLOBIN (304-1A5)	TUMOR OF MAMMARY ORIGIN.	
MDM2 MELAN A	MDM2 (IF2 ZYMED) MELAN A (A 103)	POSITIVE IN ALT-WDLPS and DEDIFFERENTIATED LPS; NEG IN LIPOMA MELANOMA CELLS, STEROID HORMONE TUMORS	
MLH-1	MLH-1 CELL MARQUE		
IAICH-T	MOC 31	Mismatch repair protein.  Recognizes the epithelial cell adhesion molecule (Ep-CAM); A VARIETY OF ADENOCARCINOMAS.	Nearly all lung adenocarcinomas and serous carcinomas of ovary are strongly
	MIDC 31	MESOTHELIOMAS ARE NEG	positive with this antibody; 5-10% of epithelioid mesothelioma's may be positive.
MOC 31		THE STATE OF THE S	Renal cell carcinoma may be positive.
MSH-2	MSH-2 CELL MARQUE	Mismatch repair protein.	
MSH-6	MSH-6	MISMATCH REPAIR PROTEIN	
	MUC4 (8G7)	VERY SENSITIVE FOR LG FIBROMYXOID SARC, SCLEROSING EPITHELOID FIBROSARC; IN SALIVARY	
		GLAND, MASC'S ARE POS; A VARIETY OF OTHER CARCINOMAS (CHOLANGIO/PANC/COLON/BREAST)	USE CAUTION IN SCLEROSING FIBROSARC AS SOME CARCINOMAS ARE ALSO MUC4
MUC4		ARE ALSO POS.	POS.
MUM-1	MUM-1 (DAKO MUM1P)	ACTIVATED B CELL MARKER; POOR PROGNOSTIC MARKER IN B LG CELL LYMPHOMA	
MYELOPEROXIDASE	MYELOPEROXIDASE	GRANULOCYTES AND MONOCYTES AND THEIR PRECURSERS	
Myogenin MYF-4	MYOGENIN MYF-4 (LEICA BIOSYSTEMS)	RHABDOMYOSARCOMA AND RHABDOID DIFFERENTIATION IN OTHER TUMORS	MYOGENIN
Myosin HC	MYOSIN HEAVY CHAIN	VASCULAR AND VISCERAL SMOOTH MUSCLE, MYOEPITHELIAL CELLS.	

	ANTIBODY	SPECIFICITY	NOTES
ORDER NAME	NAPSIN A (MONOCLONAL)	POSITIVE IN 83% LUNG ADENOCA; NEG IN SQUAMOUS AND NEUROENDORINE. ALSO POS IN PAP	POSITIVE IN 83% LUNG ADENOCA; NEG IN SQUAMOUS AND NEUROENDORINE.
	INAL SIN A (MONOCEONAE)	THRYOID AND PAP RENAL CELL CA; POS IN CLEAR CELL CA. ALSO POS IN CLEAR CELL CA OF	ALSO POS IN PAP THRYOID AND PAP RENAL CELL CA. ALSO POS IN UTERINE CLEAR
NAPSIN A		OVARY/UTERUS	CELL CA (AJSP FADARE ET AL 2014).
NEUROFILAMENT	NEUROFILAMENT	NEURONS, PERIPHERAL NERVE, NEUROBLASTOMA, NEURONAL	CEEE CA (AUSF LADARE ET AL 2014).
NKX3	NKX3 (CELL MARQUE)	TUMORS ORIGINATING FROM THE PROSTATE GLAND (NUCLEAR STAIN)	MORE SENSITIVE THAN PROSTEIN.
INKAS	OCT-2 (POLYCLONAL SANTA CRUZ)	NUCLEAR STAIN; B LYMPHOCYTE SPECIFIC TRANSCRIPTIONAL COACTIVATOR;	USEFUL IN RITUXIMAB TREATED B CELL LYMPHOMAS AS WELL AS PLASMABLASTIC
OCT-2	OCI-2 (POLICIONAL SANTA CROZ)	INOCLEAR STAIN, B LTWPHOCTTE SPECIFIC TRANSCRIPTIONAL COACTIVATOR,	AND EFFUSION RELATED TUMORS.
	0072/4	NUCLEAR CTAIN, DOC IN CENTINOMA AND EMPRIVONAL CARCINOMA	POS IN SEMINOMA AND EMBRYONAL CA; NEG IN UNDIF CA.
OCT3/4	ОСТЗ/4	NUCLEAR STAIN; POS IN SEMINOMA AND EMBRYONAL CARCINOMA,	POS IN SEMINOWA AND EWBRIONAL CA, NEG IN UNDIF CA.
DLIG-2 p120 CATENIN	OLIG-2	GLIOMAS AND OLIGODENDROGLIOMAS; NEG IN EPENDYMOMA	
DIZU CATENIN	p120 Catenin	Catenin; cytoplasmic in lobular; membranous in ductal ca.	cytoplasmic in lobular; membranous in ductal ca
DAG MIK	P16 INK (AB-4;16P04)	PROTEIN KINASE SEEN IN CELLS INFECTED WITH HIGH RISK HPV; POS IN ~80% LSIL AND >99% HSIL	
P16 INK		AND CANCER; ALSO POS IN ENDOCERV ACIS/ADENOCA.	
	p40 (BIOCARE MED)	SELECTIVELY EXPRESSED IN LUNG SQU CELL CA; MORE SPECIFIC THAN P63; ALSO POS IN UROTHELIAL	
1.2		AND MYOEPITHELIAL TUMORS; GOOD MARKER OF MYOEPITHELIAL CELLS (SIMILAR TO P63)	
p40			MORE SPECIFIC FOR SQUAMOUS CELL CA THAN P63; EQUALLY SENSITIVE.
p53	P53 (DO-7)	WILD TYPE AND MUTANT P53 PROTEIN	P53 upregulated in nonpapillary urothelial CIS.
	p57	A PATERNALY IMPRINTED GENE WHICH IS NEGATIVE IN MOLAR PREGNANCIES.	
			complete moles demonstrate loss of both villous stromal and cytotrophoblast p57
p57			staining, in contrast to partial moles and non-molar tissues.
1	p63 (4A4 + 63P02) {NUCLEAR STAIN}	MYOEPITHELIAL CELL LAYER; BASAL CELL LAYER; SALIVARY GLAND TUMORS; SQUAMOUS CELL CA;	MYOEPITHELIAL CELL LAYER; BASAL CELL LAYER; SALIVARY GLAND TUMORS;
p63		SKIN APPENDAGE TUMOR; BLADDER CA	SQUAMOUS CELL CA; SKIN APPENDAGE TUMOR; BLADDER CA
PTH	PARATHYROID HORMONE (PTH) VECTOR	PARATHYROID SECRETING CELLS (CHIEF CELLS)	
PARVO B19	PARVOVIRUS B19 (R92F6)	HUMAN PARVOVIRUS B19 (VP1 AND VP2 CAPSID PROTEINS)	
	PAX 5 (Clone 24)	NUCLEAR STAIN (PAIRED BOX TRANSCRIPTION FACTOR); PRO- PRE- AND MATURE B CELLS BUT NOT	
		PLASMA CELLS; MERKLE CELL AND SMALL CELL CA CAN ALSO BE POSITIVE (AJSP 2005)	MAY BE EXPRESSED IN POORLY DIFFERENTIATED NEUROENDOCRINE TUMORS (AJCP
PAX 5			2006)
PAX-2	PAX-2 (rabbit polyclonal)	RENAL CELLCA; NOT AS SENSITIVE AS PAX8; NEG'IVE IN ENDOCERVICAL AIS.	Renal Cell Ca; not expressed in endocervical AIS.
	PAX-8 (POLYCLONAL)	OVARIAN NEOPLASMS (SEROUS, ENDOMETRIOID, AND CLR CELL); POS IN ALL TYPES OF RCC	
		(95%SENSITIVITY); NEPHROGENIC ADENOMA; POSITIVE IN SOME B CELL LYMPHOMAS; THYMIC	GREAT MAJORITY OF OVARIAN EPITHELIAL NEOPLASMS; BRST CA NEG.; POS IN
PAX-8		TUMORS AND THYROID ARE POS	RENAL CELL TUMORS
	PD-1 (NAT105) CELL MARQUE	EPITOPE IS PART OF IMMUNE CHECKPOINT PATHWAY. LABELS FOLLICULAR HELPER T CELLS; PRESENT	
	To I (TITLES) CELETININGSE	IN ANGIOIMMUNOBLASTIC T CELL LYMHOMA AND RECOGNITION OF NLPHDL.	
PD-1		THE TOTAL PROPERTY OF THE PROPERTY OF THE TIPE	
PDL1	PDL1 (E1L3N)	CHECKPOINT INHIBITOR (LTD)	
PLAP	PLACENTAL ALK PHOS (PLAP) (RAB MONO SP15))	GERM CELL TUMORS	
PMS2	PMS2 (EPR3947)	MISMATCH REPAIR ANTIBODY	
Polyoma SV40	POLYOMA VIRUS (SV40 ONCOGENE)	LARGE T ANTIGEN OF POLYOMA VIRUS	NUCLEAR STAIN
Folyonia 3V40		LANGE I ANTIGEN OF POLITOWA VINOS	NOCEEAR STAIN
PRAME	Positive in Ganglion cells; useful to r/o Hirsprung's.  PRAME		
DD.		DROCESTRON RECERTOR ON THIMORS ETC	
PR	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16)	PROGESTRON RECEPTOR ON TUMORS ETC	Desire and and insurable analysis time.
PR PROSTEIN	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN	Benign and malignant prostatic tissue.	Benign and malignant prostatic tissue.
PR PROSTEIN PSA	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA	Benign and malignant prostatic tissue. PROSTATE SPECIFIC ANTIGEN	
PR PROSTEIN PSA RCC	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA RCC	Benign and malignant prostatic tissue.	Benign and malignant prostatic tissue.  NOT AS SENSITIVE AS PAX8
PR PROSTEIN PSA RCC S100 AND MELAN A	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA RCC S100 AND MELAN A (RECOMMENDED FOR MELANOMA SENT. LN	Benign and malignant prostatic tissue. PROSTATE SPECIFIC ANTIGEN RENAL CELL CA; NOT AS SENSITIVE AS PAX8.	
PR PROSTEIN PSA RCC	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA RCC S100 AND MELAN A (RECOMMENDED FOR MELANOMA SENT, LN S100 PROTEIN	Benign and malignant prostatic tissue.  PROSTATE SPECIFIC ANTIGEN  RENAL CELL CA; NOT AS SENSITIVE AS PAX8.  NEURAL CREST DERIVED CELLS, MELANOCYTES, CARTILAGE	
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PR PROSTEIN PSA RCC S100 AND MELAN A	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA RCC S100 AND MELAN A (RECOMMENDED FOR MELANOMA SENT. LN S100 PROTEIN SALL4 (SIGMA CLONE 6E3)	Benign and malignant prostatic tissue.  PROSTATE SPECIFIC ANTIGEN RENAL CELL CA; NOT AS SENSITIVE AS PAX8.  NEURAL CREST DERIVED CELLS, MELANOCYTES, CARTILAGE Excellent Marker of germ cell tumors (can replace PLAP). POSITIVE in Seminoma, emb ca, and YST.	NOT AS SENSITIVE AS PAX8  Excellent broad panel sensitivity for all germ cell tumors.
PR PROSTEIN PSA RCC S100 AND MELAN A S100 SALL4	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA RCC S100 AND MELAN A (RECOMMENDED FOR MELANOMA SENT, LN S100 PROTEIN	Benign and malignant prostatic tissue.  PROSTATE SPECIFIC ANTIGEN  RENAL CELL CA; NOT AS SENSITIVE AS PAX8.  NEURAL CREST DERIVED CELLS, MELANOCYTES, CARTILAGE  Excellent Marker of germ cell tumors (can replace PLAP). POSITIVE in Seminoma, emb ca, and YST.  NUCLEAR STAIN; LOWER (AS OPPOSED TO UPPER) GI ADENOCARCINOMA, MERKEL CELL CA,	NOT AS SENSITIVE AS PAX8  Excellent broad panel sensitivity for all germ cell tumors.  HIGHLY SPECIFIC FOR COLORECTAL 1°, ALSO MERKEL CELL CA, APPENDIX, AND
PR PROSTEIN PSA RCC S100 AND MELAN A S100	PROGESTERONE REC (MOUSE MONOCLONAL CLONE 16) PROSTEIN PSA RCC S100 AND MELAN A (RECOMMENDED FOR MELANOMA SENT, LN S100 PROTEIN SALL4 (SIGMA CLONE 6E3) SATB2 (NUCLEAR stain)	Benign and malignant prostatic tissue.  PROSTATE SPECIFIC ANTIGEN  RENAL CELL CA; NOT AS SENSITIVE AS PAX8.  NEURAL CREST DERIVED CELLS, MELANOCYTES, CARTILAGE  Excellent Marker of germ cell tumors (can replace PLAP). POSITIVE in Seminoma, emb ca, and YST.  NUCLEAR STAIN; LOWER (AS OPPOSED TO UPPER) GI ADENOCARCINOMA, MERKEL CELL CA, RECTAL/APPENDICEAL NET; OSTEOBLASTIC DIFFERENTIATION	NOT AS SENSITIVE AS PAX8  Excellent broad panel sensitivity for all germ cell tumors.
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## Pathology Laboratory Associates, Inc 4142 S. Mingo Road Tulsa, OK 74147

ORDER NAME	ANTIBODY	SPECIFICITY	NOTES
	TTF-1 (8G7G3/1) CELL MARQUE	Nuclear stain! TYPE II PNEUMOCYTE; THYROID FOLLICULAR EPITHELIUM; 75 % of non mucinous lung	
		adenocarcinomas are positive, mucinous bronchoalveolar carcinoma may be negative, 17% OF	
		ENDOMETIRAL CA and rare endocervical carcinomas Pos (AJSP 2007); non pulmonary small cell	
		carcinoma may be positive. Negative in pulmonary squamous cell ca. This clone more specific than	
		Novocastra clone (neg in colon ca Mod Path 2005).	
TTF-1			Pos in broncogenic small cell ca and most lung adenoca; negative in mesothelioma.
	UNSTAINED LEVELS X6		
VARICELLA	VARICELLA (MERIFLUOR VZV)	VARICELLA VIRUS (HERPETIC); CYTOPLASMIC STAINING	CYTOPLASMIC STAINING
	VILLIN AB1 (THERMO SCIENTIFIC)	BRUSH BORDER OF INTESTINE AND RENAL TUBULAR EPITHELIUM.	
VILLIN			NEARLY ALL COLON CA POS; "ENTERIC" LUNG CA (WITH ROOTLETS) MAY BE POS.
	VIMENTIN (VIM3B4)	MESENCHYMAL INTERMEDIATE FILAMENT; vimentin and keratin coexpression seen in renal cell	
		carcinoma, endometrial carcinoma, salivary gland carcinoma, thyroid carcinoma, mesothelioma,	
VIMENTIN		spindle cell carcinomas	
	WT-1 (6F-H2 DAKO)	NUCLEAR TRANCRIPTION FACTOR; OVARIAN SEROUS CA; PRIMARY PERITONEAL CA; MESOTHELIOMA;	
		SERTOLI CELL TUMOR; SEX CORD STROMAL TUMORS;	NUCLEAR TRANCRIPTION FACTOR; OVARIAN SEROUS CA; PRIMARY PERITONEAL CA;
WT-1			MESOTHELIOMA; SERTOLI CELL TUMOR; SEX CORD STROMAL TUMORS;

June 2023