



IHC ORDERING FORM

Client

Account #

Name:

Address:

Phone:

Patient

Name: Last, First M

Male Female

DOB _____ SS# _____

Address _____

Patient ID Hospital # Pathology Account #

Billing / Physician / Specimen / Comments

Client Insurance/Patient (Please Attach Copy Insurance Info)

ORDERING PHYSICIAN

Phone _____ Fax _____

Collection Date/Time _____ am pm

Paraffin-embedded tissue Slides

Anatomic Site: _____

Specimen #: _____

Comments

Global TC Technical Only

- I AE1/AE3** cytokeratin cocktail, PAN(AE1/AE3)
- I AFP** alpha fetoprotein
- I AKT** protein kinase B
- I ALK 1** Anaplastic lymphoma kinase-1
- I ANDRO** androgen receptor
- I BCL 2** follicular lymphoma, apoptosis
- I BCL 6** follicle center B-cells
- I BEREPA4** epithelial antigen (BER-EP4)
- I BRST 2** cytokeratin 5, p63, CK8/18 breast cocktail
- I CA 19 9** pancreas, liver, ovary, lung tumors
- I CA125** epithelioid malignancies ovary, breast
- I CALRT** calretinin; Calcium binding protein
- I CALCT** calcitonin
- I CAM5.2** cytokeratin 8 (CAM5.2)
- I CATH D** cathepsin D, breast carcinoma
- I CD1a** cortical thymocytes, Langerhans cells
- I CD2** thymic, T-cells, NK cells
- I CD3** pan T-cell antigen
- I CD4** helper T-cells
- I CD5** pan T-cell, B-cell subset, thymic carcinoma
- I CD7** T-cell, lymphocytes
- I CD8** suppressor T-cell
- I CD10** common ALL antigen
- I CD15** epithelial, myeloid, Reed-Sternberg cell
- I CD20** pan B-cell
- I CD23** activated B-cell 125
- I CD30** Ki-1 activated T/B-cell, Reed-Sternberg cell
- I CD31** endothelial cells
- I CD34** endothelial, stem cells, stromal cells
- I CD43** T-cell, myeloid, B-cell subset, histiocytes
- I CD45** leukocyte common antigen
- I CD56** NK cells
- I CD57** neural, neuroendocrine, NK cells
- I CD61** glycoprotein GPIIIa
- I CD68** macrophages
- I CD79a** B-cell, plasma cells
- I CD99** Ewings sarcoma, PNET
- I CD117** c-KIT, myeloid and mast cell
- I CD138** plasma cells, subset epithelial cells
- I CDX2** colorectal carcinoma
- I CEA** carcinoembryonic antigen
- I CHROGRAN** chromogranin A
- I CK HMW** cytokeratin high mol weight; 34BE12
- I CK5/6** cytokeratin 5/6, squamous, mesothelial
- I CK5/P63** cytokeratin 5/P63, tumor suppressor
- I CK7** cytokeratin 7, 54kD
- I CK8** cytokeratin 8, 35BH11
- I CK8/18** cytokeratin 8/18, adenocarcinoma
- I CK19** cytokeratin 19

- I CK20** cytokeratin 20
- I CLLG IV** Collagen IV, basement membrane protein
- I CMV** Cytomegalovirus
- I CYCLIN** Cyclin D1/PRAD1, mantle cell lymphoma
- I D2 40** podoplanin
- I DESMIN** Desmin filament protein
- I DOG1** derived from GIST 1
- I EBER ISH** Epstein Barr virus early RNA by ISH
- I ECAD** E-cadherin epithelial cell, ductal-type breast
- I EGFR1** epidermal growth factor receptor (HER1)
- I EMA** epithelial membrane antigen
- I ER** estrogen receptor
- I ERA** epithelial related antigen (MOC-31)
- I ERCC1** excision repair cross complementing polypeptide
- I FXIIIA** factor XIIIa fibrohistiocyte, dendritic cells
- I FASCIN** fascin, Hodgkin lymphoma, Reed-Sternberg
- I GALECT** galectin-3, thyroid neoplasm, anaplastic LCL
- I GASTRIN** gastrin, G-cell antral/pyloric mucosa
- I GCDFP15** gross cystic disease fluid protein
- I GFAP** human glial fibrillary acidic protein
- I GLYCP A** glycophorin-A
- I GRANB** granzyme B, cytotoxic T-cell subset, NK cell
- I HAIRY** hairy cell leukemia (DBA44)
- I HEPAR1** Hepatocyte antigen (HEP-Par-1)
- I HER2** HER2/neu (IVD)
- I HHV8** human herpes virus type 8
- I HMB 45** melanoma associated marker
- I HSV** Herpes simplex virus type I, II
- I INHIB** inhibin, adrenal cortical, sex chord stromal
- I KAP ISH** kappa immunoglobulin light chains by ISH
- I KI67** (MIB-1) cell proliferation marker
- I LAM ISH** lambda immunoglobulin light chains by ISH
- I MC** melanoma cocktail (HMB-45, MelanA)
- I MELANA** melanoma associated marker/Mart 1
- I MPO** myeloperoxidase
- I MSA** muscle specific actin
- I MSI** microsatellite instability-MLH1/MSH2/MSH6/PMS2
- I MUM1** multiple myeloma oncogene 1
- I MYOGEN** myogenin muscle marker
- I MYOGLB** myoglobin cardiac, skeletal
- I NF** neurofilament
- I NSE** neuron-specific enolase (NSE)
- I p21waf** WAF-1, inhibitory gene
- I p27Kip** kinase inhibitory protein 1
- I P504S** gene product (AMACR)
- I P53** p53 tumor suppressor gene protein
- I P63NU** p63 tumor suppressor gene protein nuclear
- I P63PC** plasma cell p63
- I PAX 5** PAX-g, B-cell transcription factor
- I pERK1/2** extracellular signal related kinase
- I PDGFR** platelet derived growth factor receptor alpha

- I PIN2** cocktail (P504S, CK HMW)
- I PIN4** cocktail (P504S, CK HMW, P63)
- I PLAP** placental alkaline phosphatase, germ cell tumor
- I PYLORI** H. pylori
- I PR** progesterone receptor
- I pRb** phosphorylated retinoblastoma suppressor protein
- I PROEXC** ProEx™ C biomarker
- I PSA** prostate specific antigen
- I PSAP** prostatic acid phosphorase
- I RCC** renal cell carcinoma
- I S100** protein
- I SMA** smooth muscle actin
- I SMM** smooth muscle myosin
- I SOMATO** somatostatin, D-cell pancreatic islet cells
- I SRV** survivin
- I SYNPTP** synaptophysin
- I TAG72** adenocarcinoma; HMW glycoprotein
- I TDT** terminal deoxynucleotidyl transferase
- I THYRGLB** thyroglobulin
- I TTF1** thyroid transcription factor-1
- I TYR** tyrosinase
- I VZV** Varicella zoster virus
- I VIM** vimentin
- I VWF** Von Willebrand factor VIII
- I WT1** Wilm's Tumor
- I ZAP70** CLL/SLL prognosis
- S ALBL** alcian blue histochemistry stain
- S MUCI** mucicarmine histochemistry stain



IHC MENU by Category

APOPTOSIS/ CELL CYCLE PROGRESSION

- I p21waf WAF-1, inhibitory gene
- I p27Kip kinase inhibitory protein 1
- I pERK1/2 extracellular signal related kinase
- I pRb phosphorylated retinoblastoma suppressor protein

BREAST/ COCKTAIL FOR INVASION/OTHER

- I BRST 2 cytokeratin 5, p63, CK8/18 breast cocktail
- I ECAD E-cadherin epithelial cell, ductal-type breast

BREAST HORMONE RECEPTORS/PROGNOSTIC PROFILE

- I ER estrogen receptor
- I PR progesterone receptor
- I HER2 HER2/neu (IVD)
 - reflex to F HER2 if I HER2 is 1+ 2+ 3+
- I KI67 (MIB-1) cell proliferation marker

CARCINOMA VS. MESOTHELIAL

- I BEREPA4 epithelial antigen (BER-EP4)
- I CALRT calretinin; calcium binding protein
- I ERA epithelial related antigen (MOC-31)
- I TAG72 adenocarcinoma; HMW glycoprotein
- I WT1 Wilm's Tumor

CERVICAL/GYNECOLOGICAL

- I PROEXC ProEx™ C biomarker

CNS

- I GFAP human glial fibrillary acidic protein
- I NF neurofilament

HEMATOPOETIC MARKERS

Bone marrow progenitors/Leukemia/Blastic

- I CD10 common ALL antigen
- I CD34 endothelial, stem cells, stromal cells
- I CD61 glycoprotein GPIIIa
- I CD68 macrophages
- I CD99 Ewing sarcoma, PNET, ALL
- I CD117 c-KIT, myeloid and mast cell
- I GLYCP A glycoporhin-A
- I MPO myeloperoxidase
- I TDT terminal deoxynucleotidyl transferase
- I VWF Von Willebrand factor VIII

Panhematopoetic

- I CD45 leukocyte common antigen

B cell lymphoma

- I ANXA1 annexin A1, hairy cell, B cell lymphoma
- I BCL 2 follicular lymphoma, apoptosis
- I BCL 6 follicle center B cells
- I CD10 common ALL antigen
- I CD20 pan B cell
- I CD23 activated B-cell 125
- I CD79a B cell, plasma cells
- I CYCLIN cyclin D1/PRAD1, mantle cell lymphoma
- I HAIRY hairy cell leukemia (DBA44)
- I MUM1 multiple myeloma oncogene 1
- I PAX 5 PAX-g, B cell transcription factor
- I ZAP70 CLL/SLL prognosis

HISTOCHEMISTRY

- S ALBL alcian blue histochemistry stain
- S MUCI mucicarmine histochemistry stain

Plasma cell

- I P63PC plasma cell p63
- I CD138 plasma cells, subset epithelial cells
- I KAP ISH kappa immunoglobulin light chains by ISH
- I LAM ISH lambda immunoglobulin light chains by ISH

T Cell/NK cell lymphoma

- I CD1a cortical thymocytes, Langerhans cells
- I CD2 thymic, T cells, NK cells
- I CD3 pan T cell antigen
- I CD4 helper T cells
- I CD5 pan T cell, B cell subset, thymic carcinoma
- I CD7 T cell, lymphocytes
- I CD8 suppressor T cell
- I CD43 T cell, myeloid, B-cell subset, histiocytes
- I CD56 NK cells
- I CD57 neural, neuroendocrine, NK cells
- I GRANB granzyme B, cytotoxic T cell subset, NK cell

Hodgkin/Anaplastic lymphoma

- I ALK 1 anaplastic lymphoma kinase-1
- I CD15 epithelial, myeloid, Reed-Sternberg cell
- I CD30 Ki-1 activated T/B cell, Reed-Sternberg cell
- I FASCIN Hodgkin lymphoma, Reed-Sternberg cells
- I PAX 5 PAX-g, B cell transcription factor

INFECTIOUS DISEASE MARKERS

- I CMV cytomegalovirus
- I EBER ISH Epstein Barr virus early RNA by ISH
- I HSV Herpes simplex virus type I, II
- I PYLORI H. pylori
- I VZV Varicella zoster virus

KERATIN/EPITHELIAL MARKERS

High molecular weight

- I CK5/6 cytokeratin 5/6, positive squamous, mesothelial
- I CK HMW 34BE12, cytokeratin high molecular weight
- I D2 40 podoplanin

Low molecular weight

- I CK7 cytokeratin 7, 54kD
- I CAM5.2 cytokeratin 8
- I CK8 cytokeratin 8, 35BH11
- I CK8/18 cytokeratin 8/18
- I CK19 cytokeratin 19
- I CK20 cytokeratin 20

Pankeratin/broad spectrum

- I EMA epithelial membrane antigen
- I AE1/AE3 cytokeratin cocktail, PAN

Other organ related

- I CDX2 colorectal carcinoma
- I CEA carcinoembryonic antigen
- I GALECT galectin-3, thyroid neoplasm, anaplastic LCL
- I GCDFP15 gross cystic disease fluid protein 15
- I HEPAR1 hepatocyte antigen, liver
- I INHIB inhibin, adrenal cortical, sex chord stromal,
- I PLAP placental alkaline phosphatase, germ cell tumors
- I RCC renal cell carcinoma
- I THYRGLB thyroglobulin
- I TTF1 thyroid transcription factor-1, lung, thyroid

MELANOCYTIC MARKERS

- I HMB 45 melanoma associated marker
- I MC melanoma cocktail (HMB-45, MelanA)
- I MELANA melanoma associated marker/Mart 1
- I S100 protein
- I TYR tyrosinase

Myoepithelial/Basal Markers/basement membrane

- I CALDSM caldesmon, smooth muscle
- I CK5/P63 cytokeratin 5/P63, tumor suppressor gene
- I P63NU p63 tumor suppressor gene protein nuclear
- I SMM smooth muscle myosin

NEUROENDOCRINE MARKERS/OTHER HORMONES

- I ANDRO androgen receptor
- I CALCT calcitonin
- I CHROGRAN chromogranin A
- I GASTRIN G cell antral/pyloric mucosa
- I NSE neuron-specific enolase
- I SOMATO somatostatin, D cell pancreatic islet cells
- I SYNPTP synaptophysin

PROGNOSTIC OTHER

- I CATH D cathepsin D, breast carcinoma
- I EGFR1 epidermal growth factor receptor (HER1)
- I ERCC1 excision repair cross complementing polypeptide
- I HER2 HER2/neu (IVD)
- I MSI microsatellite instability: MLH1, MSH2, MSH6, PMS2
- I P53 tumor suppressor gene protein

PROLIFERATION

- I AKT protein kinase B
- I KI67 (MIB-1) cell proliferation marker
- I WT1 Wilm's Tumor

Prostate marker/tumor cocktails

- I PIN2 cocktail (P504S, CK HMW)
- I PIN4 cocktail (P504S, CK HMW, P63)
- I PSA prostate specific antigen
- I PSAP prostatic acid phosphorase
- I P504S gene product (AMACR)

SARCOMA/VASCULAR/NEURAL/FIBROHISTIOCYTIC/ MUSCLE/GIST/STROMAL

- I CD10 common ALL antigen
- I CD31 endothelial cells
- I CD34 endothelial, stem cells, stromal cells
- I CD99 Ewing sarcoma, PNET
- I CD117 c-KIT, myeloid and mast cell
- I D2 40 podoplanin
- I DESMIN desmin filament protein
- I DOG1 derived from GIST 1
- I FXIIIA factor XIIIa fibrohistiocytic, dendritic cells
- I HHV8 human herpes virus type 8
- I MSA muscle specific actin
- I MYOGEN myogenin muscle marker
- I MYOGLB myoglobin cardiac, skeletal
- I PDGFR platelet derived growth factor receptor alpha
- I S100 protein
- I SMA smooth muscle actin
- I SMM smooth muscle myosin
- I VIM vimentin

TUMOR MARKERS/OTHER

- I AFP alpha fetoprotein, yolk sac, hepatoma
- I CA19 9 pancreas, liver, ovary, lung
- I CA125 pithelioid malign. ovary, adenocarcinoma, Breast
- I SRV Survivin