

HEMATOPATHOLOGY REQUISITION FORM

THIS SECTION FOR PHENOPATH USE ONLY

HEME

CLINICAL SPECIMEN INFORMATION

Hosp/Inst where specimen collected _____
Collection Date _____ Collection Time _____
Specimen ID _____ Block # / sublabel _____ Tissue Source(s) _____

- Paraffin blocks: Tissue block(s) _____ Cell block(s) _____
- Formalin Bouin's B5 Prefer Michel's (skin IF TM) Other
- Slides: Unstained _____ Stained _____
- Smears: Air-dried _____ Fixed _____ Stained _____
- Blood BM aspirate BM core bx Body Fluid/CSF

CBC/WBC DIFFERENTIAL RESULTS (REQUIRED) - please attach

NOTE: Flow Cytometry: Heparin preferred, EDTA ok
Fresh Specimens for PCR or FISH: EDTA preferred, Heparin ok

Multiple specimens submitted: Test all Select best block

CLINICAL HX / DX UNDER CONSIDERATION / REQUEST

- Perform & interpret tests determined medically necessary by PhenoPath MDs
- Perform & interpret only test(s) as requested

IMMUNOHISTOCHEMISTRY (IHC) - HEMATOLYMPHOID

PhenoPath pathologists, based on their medical judgment, will select antibodies that are necessary to answer your clinical question.

- Lymphoma vs. reactive hyperplasia Acute leukemia
- Lymphoma vs. other malignancy MDS/MPD
- Hodgkin vs. non-Hodgkin lymphoma Langerhans cell histiocytosis/ dendritic cell proliferation
- Low grade lymphoma classification Aggressive lymphoma classification
- Plasma cell dyscrasia-multiple myeloma IgG4 sclerosing disease

FLUORESCENCE IN SITU HYBRIDIZATION (FISH)

- B cell non-Hodgkin Lymphoma (NHL) - tests selected by PhenoPath MDs
- Myeloma prognostic FISH (tests selected by PhenoPath MDs)
- CLL/SLL panel # PANL9102
- APL (acute promyelocytic leukemia, AML-M3) panel # PANL9103
- MYC panel (FISH0009, FISH0015) # PANL9101
- t(14;18) IGH/BCL2 # FISH0005
- t(11;14) CCND1/IGH # FISH0002
- t(11;18) MALT1/API2 # FISH0003
- IGH (14q32) translocations (breakapart) # FISH0015
- BCL6 (3q27) translocations (breakapart) # FISH0018
- t(15;17) PML/RARA # FISH0011
- MLL (11q23) translocations (breakapart) # FISH0014
- t(9;22) BCR/ABL # FISH0010
- Other (list): _____

FLOW CYTOMETRY (diagnosis under consideration)

- Lymphoma/mature LPD: Select one: B cell T cell Both B & T cell
- Acute lymphoblastic leukemia (ALL): Select one: B cell T cell
- Plasma cell dyscrasia CLL/SLL AML CML/MPD
- MRD testing for _____ PNH MDS
- ZAP-70/CD38 CLL Prognosis Other _____

CYTOGENETICS / FISH (may be sent to referral lab)

- Chromosome analysis w/karyotyping
- Karyotyping With reflexive FISH analysis (IF NEEDED) MDS

PCR

- B cell (IgH) # PCR0001 T cell (TCR-γ) # PCR0002 JAK2 # PCR0003

REQUESTING INSTITUTION NAME & ADDRESS

Phone _____ FAX _____

Ordering Pathologist/Physician

Name _____ NPI # _____

PATIENT INFORMATION

Name (Last, First, MI) _____

SSN # _____ DOB _____ Male Female

- Inpatient Outpatient Non-Hospital Patient

Address _____

Phone _____

Medical Record # _____ Pt # _____

TREATING PHYSICIAN

Name _____ NPI # _____

- Mail/Fax add'l copy of report to treating physician
Complete information REQUIRED BELOW

Phone _____ Fax _____

Institution _____

Address _____

City, State Zip _____

**BILLING INFO (Must be provided or Institution will be billed)
Please complete or attach copy of insurance card**

BILL: Ins Medicare Medicaid (WA DSHS only) Institution Pt

Referral/Authorization # _____ ICD-9 # _____

Medicare # _____

Advance Beneficiary Notice Yes (provide copy) No

Healthplan _____

Address _____

Policy/Cert # _____ Group/Plan # _____

Name of Insured _____ Relationship _____

Secondary Insurance Yes (Please attach separate sheet) No

REQUIRED

Person completing form _____

Date _____ Phone _____

Send: REQS: DERM HEME HEMEONC MOL PATH

PhenoBoxes Flow Media (RPMI) IF Media (Michel's)

DO NOT ORDER TESTS ON THIS SIDE – ORDER TESTS ON FRONT SIDE

Carcinoma

bcl-10
 CD10 (CALLA)
 CD30 (embryonal)
 CDX-2
 CEA (CD66E)
 CEA family (CD66)
 Chorionic gonadotropin
 Chromogranin A
 Cytokeratins 1/10 (34βB4)
 Cytokeratins 5/6
 Cytokeratin 7
 Cytokeratin 8
 Cytokeratin 17
 Cytokeratin 19
 Cytokeratin 20
 Cytokeratin, high MW (34βE12)
 Cytokeratins (pan)
 EMA
 *EpCAM
 Estrogen receptor (ER)
 Galectin-3
 GCDFP-15 (Brst2)
 Glypican-3 (GPC3)
 HBME-1
 HepPar1
 Inhibin-alpha
 Mammaglobin
 p63
 p504s (AMACR)
 PAX-2
 PAX-8
 Progesterone receptor (PR)
 Prostate specific antigen
 Prostatic acid phosphatase
 Smoothelin
 Surfactant ApoA1
 Synaptophysin
 TFE3
 Thyroglobulin
 TTF-1
 Uroplakin
 Villin
 Vimentin
 WT-1

Spindle cell & SBRCT lesions

/Undifferentiated neoplasms
 Actin, muscle specific (HHF-35)
 Actin, smooth muscle alpha
 Beta-catenin
 Caldesmon
 c-kit (CD117)
 CD31
 CD34
 CD35
 CD99
 CD117 (c-kit)
 Collagen, type IV
 D2-40 (podoplanin)

Spindle cell & SBRCT lesions/Undifferentiated neoplasms (continued)

Desmin
 DOG1
 EMA
 FLI-1
 gp100 (HMB-45)
 INI-1
 Ki-67 antigen
 MyoD1
 Myogenin
 Myoglobin
 NB84 antigen
 p75NTR
 Podoplanin (D2-40)
 S100
 TFE3
 TLE-1
 WT-1

Prognostic markers
 Androgen receptor
 Cyclo-oxygenase-2 (COX2)
 EGFR (31G7) by IHC
 EGFR by FISH
 Estrogen receptor (ER)
 HER2 by FISH
 HER2 by IHC
 HER2HercepTest™ by IHC
 Ki-67 antigen
 p53
 Progesterone receptor (PR)
 Thymidylate synthase
 Topoisomerase II α by FISH
 Topoisomerase II α by IHC
 VEGF

Hematolymphoid

+ALK protein (p80)
 bcl-2
 +bcl-6
 +Bob-1
 c-kit (CD117)
 CD1a
 CD2
 CD3
 CD4
 CD5
 CD7
 CD8
 *CD9
 CD10 (CALLA)
 *CD11c
 *CD13
 *CD14
 CD15
 *CD16
 *CD19
 CD20
 +CD21
 CD22
 CD23
 CD25 (IL-2 R β)
 CD30 (Ki-1 antigen)
 +CD31
 *CD33
 CD34
 +CD35
 *CD38
 *CD41
 +CD43
 CD45 (LCA)
 CD52 (CAMPATH 1H)
 CD56 (NCAM)
 +CD57
 *CD59

Hematolymphoid (continued)

*CD61
 *CD64
 *CD66b
 +CD68
 *CD71
 CD79a
 *CD90
 CD99
 *CD103
 CD117
 CD123
 *CD133
 +CD138
 *CD158a
 *CD158b
 *CD158e
 +CD163
 +CXCL13
 +Cyclin D1
 +DBA.44 (Hairy Cell)
 +Fascin
 *FMC7
 +FOXP1
 +GCET
 +Glycophorin A
 +Hemoglobin A
 *HLA-DR
 +IgA
 +IgD
 +IgG
 +IgG4
 +IgM
 Kappa light chains
 +Ki-67 antigen
 Lambda light chains
 +Lysozyme
 +MUM1
 Myeloperoxidase
 +Oct-2
 +Pan-TCR-β
 +PAX-5
 *TCR-α/β
 *TCR-β isoforms (24 antibodies)
 *TCR-γ/δ
 TdT
 +TIA-1
 +TRAcP
 +Tryptase
 +vWF
 ZAP-70

Breast
 Androgen receptor
 Calponin
 E-cadherin
 Estrogen receptor (ER)
 HER2 by FISH
 HER2 by IHC
 HER2 HercepTest™
 Ki-67
 Maspin
 p63
 Progesterone receptor (PR)
 SMMHC
 Topoisomerase II α by FISH
 Topoisomerase II α by IHC

Germ Cell Markers
 AFP
 βHCG
 CD30
 Cytokeratins (pan)
 Inhibin-alpha
 Oct-3/4

Germ Cell Markers (cont)

Placental lactogen
 PLAP

Organisms
 Adenovirus
 BK virus
 Chlamydia
 Cytomegalovirus
 EBV (EBER1 ISH)
 EBV-LMP1
 Helicobacter pylori
 Hepatitis B core Ag
 Hepatitis B surface Ag
 Herpes virus
 HHV8 (human Herpes virus 8 - KSHV)
 JC virus
 Legionella
 p16 (surrogate marker for high-risk HPV)
 Parvovirus
 Pneumocystis
 Polyomavirus
 Respiratory syncytial virus
 SV-40 virus
 Toxoplasma
 Varicella zoster

Microsatellite Instability
 MLH1
 MSH2
 MSH6
 PMS2

Melanoma
 gp100 (HMB-45)
 MART-1 antigen
 Microphthalmia transcription factor (MTF)
 S100
 Tyrosinase

Amyloid Subtyping
 @ Amyloid A (AA)
 @ Amyloid Beta
 @ Amyloid P (P component)
 @ Beta-2 microglobulin Congo Red (sp. stain)
 @ Kappa
 @ Lamda
 @ Transthyretin (prealbumin)

Adenocarcinoma versus mesothelioma
 Ber-Ep4
 Bg8
 Calretinin
 Cytokeratins 5/6
 D2-40 (podoplanin)
 HBME-1
 Mesothelin
 MOC-31
 Thrombomodulin
 WT-1

Miscellaneous
 Alpha-1 antitrypsin
 Androgen receptor
 Caspase 3 fragment
 GFAP (glial fibrillary acidic protein)
 Mitochondria
 Neurofilaments
 p16
 p21-WAF1
 p53
 p57
 Vimentin

Floater/tissue Contaminant

Blood group A
 Blood group B
 CEP-X/CEP-Y (FISH0012)

Direct Immunofluorescence (DIF) (skin...)

Complement (C3)
 IgA
 IgG
 IgM

Indirect Immunofluorescence (IIF) (serum required)

Salt-Split Skin Immunofluorescence

from serum
 from skin/mucosa bx

FISH Tests & Panels

1p36/19q13-Oligodendroglioma FISH0013
 EGFR/CEP7 FISH0016
 EWSR1 (22q12) trans (BAP) FISH0004
 HER2/CEP17 (PathVysion™) FISH0001
 MDM-2/SE12 FISH0023
 TP53/CEP17 FISH0024
 SMS/RARA FISH0022
 SS18(SYT)-translocations (BAP) FISH0006
 TOP2A/CEP17 FISH0017
 BCL6 translocations (BAP) FISH0018
 § IgH (14q32) translocations (BAP) FISH0015
 MALT1(18q21)translocations (BAP) FISH0007
 § MYC (8q24) translocations (BAP) FISH0009
 § t(4;14) FGFR3/IGH FISH0020
 § t(11;14) CCND1/IGH FISH0002
 t(14;18) IGH/MALT1 FISH0008
 t(14;16) IGH/MAF FISH0027
 t(11;18) MALT1/API2 FISH0003
 § t(14;18) IGH/BCL2 FISH0005
 § t(9;22) BCR/ABL FISH0010
 √ MLL (11q23) translocations (BAP) FISH0014
 √ t(15;17) PML/RARA FISH0011
 § RARA(17q21) translocations (BAP) FISH0019
 CEP-X / CEP-Y FISH0012
Hydatidiform Mole Panel PANL9104
 (CEP17FISH, p57IHC, MIB1IHC)
 § MYC Panel (FISH0009, FISH0015) PANL9101
 √ CLL Panel PANL9102
 √ APL Panel (FISH0011, FISH0019) PANL9103

CISH Tests

EBV (EBER1 mRNA) CISH0001

PCR

GENE REARRANGEMENT:
 B cell (IGH) PCR0001
 T cell (TCR-γ) PCR0002

MUTATIONAL ANALYSIS
 BRAF PCR0004
 EGFR PCR0007
 JAK2 PCR0003
 KRAS PCR0005
 KRAS/BRAF Panel PANL9105

For the most up-to-date listing of tests, see our website: www.phenopath.com

All of the above listed tests can be performed on paraffin-embedded tissue sections, with the following exceptions:

1. CD52 testing requires fresh tissue specimens.
2. Hematolymphoid tests – can be run by either IHC or flow, except as follows:
 * = Performed by flow cytometry only and requires fresh specimens
 + = Performed by IHC only and can be performed on paraffin-embedded tissue sections
 @ Please also submit 8 μm section for correlative Congo Red stain
3. DIF testing requires tissue in Michel's, and IIF testing requires serum.
4. FISH tests are run on formalin-fixed, paraffin-embedded sections, except as follows:
 √ = Requires fresh specimens
 § = Can be performed on either fresh or formalin-fixed, paraffin-embedded tissues
 BAP = breakapart probe