



## FLOW CYTOMETRY

**Acute Leukemia Panel (ALL, AML, MDS, MPN):** CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11C, CD13, CD14, CD15, CD16, CD19, CD20, CD22, CD23, CD25, CD33, CD34, CD45, CD56, CD57, CD117, HLA-DR, FMC-7, KAPPA, LAMBDA

**Intracytoplasmic Panel (Add to Acute Leukemia):** CD3, CD22, CD79a, MPO, TdT

**Lymphoma Panel (B-NHL, T-NHL, NK Cell Neoplasms):** CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11C, CD16, CD19, CD20, CD22, CD23, CD25, CD34, CD45, CD56, CD57, HLA-DR, FMC-7, KAPPA, LAMBDA

**Immune Deficiency (HIV):** CD3, CD4, CD8, CD45

**CLL Panel:** CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11C, CD16, CD19, CD20, CD22, CD23, CD25, CD34, CD38, CD45, CD56, CD57, HLA-DR, FMC-7, KAPPA, LAMBDA, ZAP70

**Myeloma Panel:** CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11C, CD16, CD19, CD20, CD22, CD23, CD25, CD34, CD38, CD45, CD56, CD57, CD138, HLA-DR, FMC-7, KAPPA (Cy), LAMBDA (Cy)

**PNH Panel:** CD14, CD15, CD24, CD45, CD59a, CD64, CD235a, FLAER

## FISH PROBES (CALL 1.877.617.4445 FOR ANY PROBES NOT LISTED HERE)

**ALL Panel:** BCR/ABL (t(9;22)), D10Z1/D17Z1/CHIC2 (Hyperdiploidy), E2A Break-Apart (E2A Rearrangement), IGH Break-Apart (IGH Rearrangement), MLL Break-Apart (MLL Rearrangement), MYC Break-Apart (MYC Rearrangement), P16/D9Z3 (P16 Deletion), TEL/AML1 (t(12;21))

**AML Panel:** AML1/ETO (t(8;21)), CBFβ/MYH11 (Inv(16)), EGR1/5p15.31 (5q Deletion), MLL Break-Apart (MLL Rearrangement), P53/D17Z1 (P53 Deletion), PML/RARA (t(15;17)), PTPRT/MYBL2 (20q Deletion), RELN/TES (7q Deletion)

**CLL Panel:** 13q14.3 (RB1 Deletion), ATM/D11Z1 (ATM Deletion), D12Z1 (Trisomy 12), IGH/CCND1 (t(11;14)), MYB/D6Z1 (6q Deletion), p53/D17Z1 (P53 Deletion)

**CML Panel:** BCR/ABL1-ASS

**Myeloma Panel:** 13q14.3 (RB1 Deletion), 5q/-/+5, CKS1B/CDKN2C, IGH Break-Apart (IGH Rearrangement), IGH/CCND1 (t(11;14)), IGH/FGFR3 (t(4;14)), IGH/MAF (t(14;16)), P53/D17Z1 (P53 Deletion)

**MDS Panel:** 13q14.3 (13q Deletion), CEP8 (Trisomy 8), EGR1/5p15.31 (5q Deletion), MLL Break-Apart (MLL Rearrangement), P53/D17Z1 (P53 Deletion), PTPRT/MYBL2 (20q Deletion), RELN/TES (7q Deletion)

**MPN Eosinophilia Panel:** FIP1L1/CHC2/PDGFRα Deletion/Fusion, FGFR1 Rearrangement, PDGFRB Rearrangement

**B-Cell NHL Panel:** BCL6 Rearrangement, IGH/BCL2 (t(14;18)), IGH/CCND1 (t(11;14)), MALT1 Rearrangement, MYC Rearrangement

## MOLECULAR STUDIES

Quantitative BCR-ABL p210/190  
ABL1 Kinase Domain Mutation  
CALR Mutation Analysis  
MPL Mutation Analysis  
JAK2 Exon 12-13

JAK2 V617F Mutation Analysis  
MPN Molecular Panel  
T-Cell Clonality Assessment  
B-Cell Clonality Assessment  
IgVH Hypermutation Analysis

FLT3/NPM1 Mutation Analysis  
FLT3 Mutation Analysis  
NPM1 Mutation Analysis  
cKIT (D816V) Mutation Analysis  
PML/RARA Quantitative

CEBPA Mutation Analysis  
MLL-PTD Mutation Analysis

## NEXT-GEN SEQUENCING

**Myeloid Molecular Panel:** ASXL1, BCOR, BRAF, CALR, CEBPA, CBL, CSF3R, DNMT3A, ETV6, EZH2, GATA2, GNAS, IDH1, IDH2, JAK2, KIT, KRAS, MPL, NF1, NPM1, NRAS, PDGFRα, PDGFRβ, PHF6, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SMC1A, SMC3, SRSF2, STAT3, STAT5, TET2, TP53, U2AF1, WT1, ZRSR2

**MPN Molecular Panel:** CALR, CSF3R, JAK2, MPL, SETBP1

**AML Molecular Panel:** ASXL1, BCOR, CEBPA, DNMT3A, EZH2, IDH1, IDH2, KIT, KRAS, NPM1, NRAS, PHF6, RUNX1, SF3B1, SRSF2, STAT3, TET2, TP53, U2AF1, WT1, ZRSR2

**MDS Molecular Panel:** ASXL1, ETV6, EZH2, RUNX1, TP53

**Lymphoid Molecular Panel:** ABL1, ALK, ATM, BCL2, BCL6, BCOR, BIRC3, BRAF, BTK, CARD11, CCND1, CD79A, CD79B, CDKN2A, CREBBP, CTCF, CXCR4, DDX3X, EP300, ETV6, EZH2, FAT1, FBXW7, FOXO1, GNA13, GNAI2, HIST1H1E, ID3, IKZF1, ITPKB, JAK1, JAK2, JAK3, KMT2A/MLL, KRAS, MAPK1, MED12, MEF2B, MYC, MYD88, NF1, NOTCH1, NOTCH2, NRAS, P2RY8, PDGFRβ, PIK3CD, PIM1, PLCG2, POT1, PRDM1, PTEN, PTPN11, RB1, RHOA, RIPK1, S1PR2, SAMHD1, SF3B1, SGK1, SPEN, SRC, STAT3, STAT5B, SYK, TBL1XR1, TCF3, TNFAIP3, TNFRSF14, TP53, TRAF2, TRAF3, UBR5, XPO1, ZMYM3

## PREFERRED SPECIMEN REQUIREMENTS

Specimen Type	Flow Cytometry	Cytogenetics	FISH <sup>1</sup>	Molecular <sup>1</sup>	Immunostains
Peripheral Blood <sup>2</sup>	Lavender <sup>3</sup> or Green Top <sup>4</sup>			Lavender Top <sup>3</sup>	Not Applicable
Bone Marrow	Tissue Media			Tissue Media RNA Fixative or 10% Neutral Buffer	10% Formalin or Paraffin Block
Lymph Node or Tissue (Fresh)	Not Applicable			Paraffin Block or Unstained Slides	Paraffin Block or Unstained Slides
Formalin Fixed Paraffin Embedded	Tissue Media			Paraffin Block <sup>5</sup>	Cell Block
Fine Needle Aspirate	Sterile Container				
Body Fluid <sup>6</sup>					

<sup>1</sup> Decalcified samples not suitable | <sup>2</sup> Please provide copy of CBC if available | <sup>3</sup> Lavender Top: EDTA | <sup>4</sup> Green Top: Sodium Heparin | <sup>5</sup> Only for some tests; contact us for details | <sup>6</sup> Minimum of 5 mL is preferred

## SPECIMEN HANDLING AND TRANSPORTATION

**Storage:** All specimens should be stored at room temperature.

**Transportation:** Please use cold packs for transportation without placing packs in direct contact with specimens. Please fill out the requisition form completely and place all specimens in a CorePath shipping kit using the pre-printed air bills supplied by CorePath.

**Schedule a Pick-Up:** Call CorePath Laboratories at 1.877.617.4445 to schedule a pick-up. In the San Antonio area, call 210.617.4445 to schedule a courier pick-up.