

PLEASE CALL DIANEXUS CLIENT SERVICES AT (561) 325-8809 TO INQUIRE ABOUT TESTS NOT LISTED BELOW

FISH PANELS WITH REFLEX CONDITIONS. (FOR TECH-ONLY SERVICES, REFLEX OPTIONS MUST BE INITIATED BY SIGNING PATHOLOGIST)
AML - Panel 1 - [t(15;17)/PML-RARA] *IF NEGATIVE, REFLEX TO: t(8;21)/RUNX1T1-RUNX1, inv16/CBFB-Break apart, KMT2A(MLL)-Break apart *IF gain of RARA, REFLEX TO: RARA-Break apart
AML - Panel 2 - [5q/EGR1, 7q/CEP7, CEP8, 20q, RB1-LAMP1, KMT2A(MLL)-Break apart, t(9;22)/BCR-ABL1]
AML - Panel 3 - [5q/EGR1, 7q/CEP7, KMT2A(MLL)-Break apart, t(8;21)/RUNX1T1-RUNX1, inv16/CBFB-Break apart, t(9;22)/BCR-ABL1] *IF NEGATIVE, REFLEX TO: RB1-LAMP1, 20q, CEP8
AML - Panel 4 - [t(8;21)/RUNX1T1-RUNX1, inv16/CBFB-Break apart, KMT2A(MLL)-Break apart] - global
AML with monocytic differentiation - [inv16/CBFB-Break apart, KMT2A(MLL)-Break apart] - global
B - ALL - [t(9;22)/BCR-ABL1, KMT2A(MLL)-Break apart, t(12;21)/ETV6-RUNX1, CRLF2-Break apart, CEP4/CEP10/CEP17] - global *IF NEGATIVE, REFLEX TO: [9p21/CDKN2A-CEP9, IGH-Break apart, MYC-Break apart] - global *IF gain of ETV6, REFLEX TO: [ETV6-Break apart] - global
Burkitt Only - [t(8;14)/IGH-MYC, MYC-Break apart] *IF GAIN of IGH, REFLEX: [t(14;18)/IGH-BCL2, BCL6-Break apart, BCL2-Break apart] *IF clinically indicated for MCL, REFLEX: [t(6;14)/CCND3-IGH, t(11;14)/CCND1-IGH, CCND1-Break apart, CCND2-Break apart]
CLL/SLL + Mantle cell - [CLL1(ATM/TP53), CLL2(13q14.3/LAMP1/CEP12), IGH-Break apart, MYB-CEP6, RB1-LAMP1, t(11;14)/CCND1-IGH] *IF IGH Rearranged, REFLEX: t(14;18)/IGH-BCL2 *IF unresolved question of MCL, REFLEX: [t(6;14)/CCND3-IGH, CCND1-Break apart, CCND2-Break apart]
CLL/SLL - [CLL1(ATM/TP53), CLL2(13q14.3/LAMP1/CEP12), IGH-Break apart, MYB-CEP6, RB1-LAMP1] *IF IGH Rearranged, REFLEX: [t(11;14)/CCND1-IGH and/or t(6;14)/CCND3-IGH, t(14;18)/IGH-BCL2, CCND2-Break apart] if indicated
CML - [t(9;22)/BCR-ABL1] *IF POSITIVE, REFLEX: (BCR-ABL1(p210/p190) by RT-PCR
Eosinophilia - [PDGFRA-Break apart, PDGFRB-Break apart, FGFR1-Break apart], JAK2-Break apart
Follicular Center Lymphoma - [t(14;18)/IGH-BCL2, BCL6-Break apart, BCL2-Break apart] *IF GAIN IGH, REFLEX: [t(8;14)/IGH-MYC, MYC-Break apart] *IF question of MCL by Flow, REFLEX: [t(6;14)/CCND3-IGH, t(11;14)/CCND1-IGH, CCND1-Break apart, CCND2-Break apart]
HGBL/Triple Hit - [t(8;14)/IGH-MYC, MYC-Break apart, t(14;18)/IGH-BCL2, BCL6-Break apart, BCL2-Break apart] *IF clinically indicated for MCL, REFLEX: [t(6;14)/CCND3-IGH, t(11;14)/CCND1-IGH, CCND1-Break apart, CCND2-Break apart]
LPL/Waldenstrom [MYB-CEP6, IGH-Break apart]
MALT Only - [MALT1-Break apart, BCL6-Break apart, t(11;18)/BIRC3-MALT1] *IF MALT1 rearranged, REFLEX TO: [t(14;18)/IGH-MALT1]
Marginal Zone - [7q/CEP7, CEP12, BCL6-Break apart, MALT1-Break apart, IGH-Break apart, TP53/CEP17] *IF MALT1-Break apart rearranged, REFLEX TO: [t(11;18)/BIRC3-MALT1, t(14;18)/IGH-MALT1] *IF IGH-Break apart rearranged, REFLEX TO: [t(11;14)/CCND1-IGH, CCND1-Break apart, t(14;18)/IGH-BCL2] *IF unresolved question of MCL, REFLEX: [t(6;14)/CCND3-IGH, CCND2-Break apart]
Mantle Cell - [t(11;14)/CCND1-IGH, CCND1-Break apart] *IF Negative and clinically indicated, REFLEX: [t(6;14)/CCND3-IGH, CCND2-Break apart]
Mantle cell, Reflex CLL/SLL - [t(11;14)/CCND1-IGH, CCND1-Break apart] *IF NEGATIVE, REFLEX TO: [CLL/SLL Panel] *IF Negative and clinically indicated, REFLEX: [t(6;14)/CCND3-IGH, CCND2-Break apart]
MDS - [5q/EGR1, 7q/CEP7, CEP8, 20q, RB1-LAMP1, KMT2A(MLL)-Break apart, TP53/CEP17]
MPN - [t(9;22)/BCR-ABL1, 5q/EGR1, 7q/CEP7, CEP8, 9p21/CDKN2A-CEP9, 20q, RB1-LAMP1]
MPN/Eosinophilia - [t(9;22)/BCR-ABL1, 4q12/PDGFRB-Break apart, PDGFRB-Break apart, FGFR1-Break apart], JAK2-Break apart
Myeloma/PCD Panel - [1p/1q, RB1-LAMP1, IGH-Break apart, TP53/CEP17, t(11;14)/CCND1-IGH, CEP9/CEP11] *IF IGH is rearranged, but Negative for t(11;14)/CCND1-IGH; REFLEX TO: [t(4;14)/FGFR3-IGH, t(6;14)/CCND3-IGH, t(14;16)/IGH-MAF, t(14;20)/IGH-MAFB] *IF GAIN of CCND1, without GAIN of CEP11, REFLEX: [CCND1-Break apart]
PML-RARA [t(15;17)]
T-ALL - [t(9;22)/BCR-ABL1, (9p21)/CDKN2A-CEP9, KMT2A(MLL)-Break apart] *IF NEGATIVE, REFLEX TO: [1p33, t(5;14), t(10;11), 7q/CEP734, 14q11.2]
T-PLL [TCL1 for inversion 14 and t(14;14); TRA for t(x;14)]

HEMATOLOGY PROFILE AND LIQUID BIOPSY GENES TESTED FOR ABNORMALITIES													
ABL1	BCL2	CBL	CDKN2C	DICER1	FAS	IDH2	KMT2A	MPL	PAX5	PTCH1	SMAD2	TGFBR2	
AKT1	BCL2L1	CEBL	CEBPA	DNMT3A	FBXW7	IGF1R	KMT2B	MRE11A	PBRM1	PTEN	SMAD4	TP53	
AKT2	BCL6	CBLC	CHEK1	EP300	FLT3	IKZF1	KMT2C	MTOR	PDGFRA	PTPN11	SMARCA4	TSC1	
AKT3	BCOR	CCND1	CHEK2	ERG	GATA1	IKZF3	KMT2D	MUTYH	PDGFRB	RAD21	SMARCB1	TSC2	
ALK	BCORL1	CCND3	CIC	ETV6	PHF6	IRF4	KRAS	MYC	PHF6	RAD50	SMC1A	TSHR	
AMER1	BCR	CD274	CREBBP	EZH2	GATA3	JAK1	MAP2K1	MYD88	PIK3CA	RAD51	SMO	WT1	
APC	BIRC3	CD79A	CRLF2	FAM175A	GEN1	JAK2	MAP2K2	NFKBIA	PIK3R1	RB1	SOC1	ZNF217	
ARID1A	BLM	CD79B	CSF1R	FAM46C	GNAQ	JAK3	MAP2K4	NOTCH1	PIK3R2	RHOA	SRC	ZRSR2	
ARID1B	BRAF	CDH1	CSF3R	FANCA	GNAS	KAT6A	MAP3K1	NOTCH2	PIM1	RNF43	SRSF2	MEF2B	
ARID2	BRCA1	CDK12	CTNNA1	FANCC	H3F3A	KDM5C	MAP3K14	NOTCH3	PLCG1	RUNX1	STAG2		
ASXL1	BRCA2	CDK4	CTNNA1	FANCD2	HNF1A	KDM6A	MAPK1	NPM1	POLD1	SDHB	STAT3		
ATM	BTK	CDK6	CUX1	FANCE	HOXB13	KDR	MCL1	NRAS	POLE	SETBP1	STK11		
ATRX	CALR	CDKN2A	CXCR4	FANCF	HSP90AA1	KEAP1	MDM2	NSD1	PPM1D	SETD2	TERT		
B2M	CARD11	CDKN2B	DDR2	FANCG	IDH1	KIT	MDM4	PALB2	PPP2R1A	SF3B1	TET2		

*CONSULTATION LEVELS	
CPT Code 88321	Consultation and report on slides NOT prepared by DiaNexus Laboratories
CPT Code 88323	Consultation and report on slides prepared by CSI Laboratories (includes review of pathology report only; no other additional medical records review)
CPT Code 88325	Consultation and report on slides prepared by DiaNexus Laboratories, including complete medical records review (complete medical records include but are not limited to pathology reports, surgical notes, radiology reports, laboratory results, etc.)

SPECIMEN REQUIREMENTS		SHIP SPECIMENS WITH COLD PACK
Flow Cytometry	Peripheral Blood	3 mL in sodium heparin (green top)- preferred or 3 mL in EDTA (purple top)
	Bone Marrow Aspirate	1-2 mL in sodium heparin (green top)- preferred or 1-2 mL in EDTA (purple top)
	Fresh Tissue	Multiple 2-3 mm pieces of tissue in RPMI transport media (optimum RPMI to tissue ratio is 15:1; multiple vials are acceptable)
	Body Fluids	Mix 1:1 in RPMI transport media
Cytogenetics	PNH Profile	3 mL peripheral blood in EDTA (purple top) preferred, should be processed within 24 hours of collection
	Peripheral Blood	5 mL in sodium heparin (green top)
	Bone Marrow Aspirate	2-3 mL in sodium heparin (green top)
	Cord Blood	2-5 mL in sodium heparin (green top)
FISH	Fresh Tissue	Multiple 2-3 mm pieces of tissue in RPMI transport media (optimum RPMI to tissue ratio is 15:1; multiple vials are acceptable)
	Peripheral Blood	3 mL in sodium heparin (green top)- preferred or 3 mL in EDTA (purple top)
	Bone Marrow Aspirate	2-3 mL in sodium heparin (green top)- preferred or 3 mL in EDTA (purple top)
	Fresh Tissue	Multiple 2-3 mm pieces of tissue in RPMI transport media (optimum RPMI to tissue ratio is 15:1; multiple vials are acceptable)
Molecular	Formalin-Fixed Paraffin-Embedded Tissue	Minimum 0.2 x 0.2 x 0.2 cm tissue; non-decalcified tissue only (FISH only)
	Peripheral Blood	5-10 mL EDTA tube (purple top)- preferred; ACD (yellow top) acceptable
	Bone Marrow	1-2 mL in EDTA tube (purple top)- preferred; ACD (yellow top) acceptable
	Fresh Tissue	Minimum of 250 mg tissue in RPMI transport media
IHC	Formalin-Fixed Paraffin-Embedded Tissue	1 H&E slide and 6-8 unstained slides, 5-7 microns of BM clot or tissue fixed with 10% NBF fixative. Please circle tumor for microdissection. Alternatively, the FFPE block of the BM clot can be sent for sectioning in our lab.
		1 H&E slide with its corresponding paraffin block (10% neutral buffered formalin)- preferred