

HEMATOLOGY | ONCOLOGY | LYMPHOMA FISH

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INDICATION-SPECIFIC TESTING and PANELS

- **Acute Lymphocytic Leukemia/Lymphoma (ALL)-Pediatric**
 - ABL1 [9q34]
 - ABL2 [1q25.2]
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - CRLF2 [Xp22.33/Yp11.3]
 - ETV6::RUNX1 (TEL::AML1) [t(12;21)]
 - Hyperdiploidy
 - 4 centromere
 - 10 centromere
 - 17 centromere
 - KMT2A (MLL) [11q23]
 - PDGFRB/CSF1R [5q32]
- **Acute Lymphocytic Leukemia/Lymphoma (ALL)-Adult**
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - CDKN2A/2B [9p21]
 - CRLF2 [Xp22.33/Yp11.3]
 - ETV6::RUNX1 [t(12;21)(p13;q22)]
 - Hyperdiploidy
 - 4 centromere
 - 10 centromere
 - 17 centromere
 - IGH/14q32
 - KMT2A (MLL) [11q23]
 - TCF3::PBX1/t(1;19)(q23;p13.3)
 - TP53 [17p13.1]

Expanded Ph-like ALL Panel

 - ABL1 [9q34]
 - ABL2 [1q25]
 - EPOR [19p13.2]
 - JAK2 [9p24]
 - MYC [8q24]
 - PDGFRB/CSF1R [5q32]
- **Acute Lymphocytic Leukemia/Lymphoma (ALL)-Ph-like**
 - ABL1 [9q34]
 - ABL2 [1q25.2]
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - CRLF2 [Xp22.33/Yp11.3]
 - EPOR [19p13.2]
 - JAK2 [9p24]
 - PDGFRB/CSF1R [5q32]
- **Acute Lymphocytic Leukemia/Lymphoma (ALL)-T-cell**
 - 6q21 / 6q23
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - CDKN2A / 2B [9p21]
 - KMT2A (MLL) [11q23]
 - TRA/D (TCR) [14q11.2]
 - TRB (TCRB) [7q34]
- **Acute Myeloid Leukemia (AML)**
 - 8 centromere
 - CFBF [16q22]
 - D7S486 [7q31] / 7 centromere
 - EGR1 [5q31]
 - KMT2A (MLL) [11q23]
 - MECOM (EVI1) [3q26.2]
 - NUP 98 [11p15]
 - PML::RARA [t(15;17)]
 - ARA [17q21]
 - RUNX1::RUNX1T1 (AML1::ETO) [t(8;21)]
 - TP53 [17p13.1] / 17 centromere
- **Burkitt lymphoma**
 - IGH::MYC / 8 centromere [t(8;14)]
 - MYC [8q24]
- **Chronic Lymphocytic Leukemia (CLL)**
 - 6q23
 - 12 centromere
 - ATM [11q22.3]
 - D13S319 [13q14] / 13q34
 - IGH [14q32]
 - IGH::CCND1 [t(11;14)]
 - TP53 [17p13.1]
- **Chronic Myeloid Leukemia (CML)**
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - 8 centromere*
 - MECOM [3q26.2]*
 - TP53 [17p13.1] / 17 centromere*
 - 19p13 / 19q13*

* when concurrent Chromosome Analysis is not performed and BCR::ABL1 fusion is detected
- **Eosinophilia**
 - ABL1 [9q34]
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - CFBF [16q22]
 - ETV6 (TEL) [12p13]
 - FGFR1 [8p12]
 - FIP1L1 / CHIC2 / PDGFRA [4q12]
 - JAK2 [9p24]
 - PDGFRB [5q32]
- **Follicular Lymphoma**
 - BCL2 [18q21]
- **Myelodysplastic Neoplasm (MDS)**
 - 8 centromere
 - D7S486 [7q31] / 7 centromere
 - EGR1 [5q31]
 - KMT2A (MLL) [11q23]
 - MECOM (EVI1) [3q26.2]
 - NUP98 [11p15]
 - TP53 [17p13.1] / 17 centromere
- **Myeloproliferative Neoplasm (MPN)**
 - 8 centromere
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - D7S486 [7q31] / 7 centromere
 - D13S319 [13q14] / 13q34
 - TP53 [17p13.1] / 17 centromere
- **Myelodysplastic Neoplasm / Myeloproliferative Neoplasm (MDS/MPN)**
 - 8 centromere
 - BCR::ABL1 [t(9;22)] / LSI 9q34
 - D7S486 [7q31] / 7 centromere
 - D13S319 [13q14] / 13q34
 - EGR1 [5q31]
 - KMT2A (MLL) [11q23]
 - MECOM (EVI1) [3q26.2]
 - NUP98 [11p15]
 - TP53 [17p13.1] / 17 centromere
- **Mantle Cell Lymphoma**
 - IGH::CCND1 [t(11;14)]
- **Marginal Zone Lymphoma**
 - 12 centromere
 - BCL6 [3q27] / 3 centromere
 - D7S486 [7q31] / 7 centromere
 - IGH [14q32]
 - MALT1 [18q21] / 18 centromere
- **Non-Hodgkin Lymphoma (NHL)**
 - BCL6 [3q27]*
 - BCL2 [18q21]
 - IGH::MYC / 8 centromere [t(8;14)]
 - MYC [8q24]
 - TP53 [17p13.1] / 17 centromere

* alternate & major breakpoint
- **Multiple Myeloma (MM)**
 - CDKN2C [1p32.3] / CKS1B [1q21.3]
 - D13S319 [13q14] / 13q34
 - Hyperdiploidy
 - 9 centromere
 - 11 centromere
 - IGH [14q32 abnormalities]
 - IGH::CCND1 [t(11;14)]
 - IGH::FGFR3 [t(4;14)]
 - IGH::MAF [t(14;16)]
 - IGH::MAFB [t(14;20)]
 - MYC [8q24]
 - TP53 [17p13.1] / 17 centromere

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PROBE LIST

Centromere enumeration	CRLF2 [Xp22.33/Yp11.3]	IRF4 / DUSP22 [6p25.3]
6q21	D13S319 [13q14/13q34]	JAK2 [9p24]
6q23	D7S486 [7q31] / 7 centromere	KAT6A::CREBBP [t(8;16)]
15q22	DEK::NUP214 [t(6;9)]	KMT2A (MLL) [11q23]
19p13 / 19q13	DUSP22 / IRF4 [6p25.3]	MALT1 [18q21] / 18 centromere
20q12	EGR1 [5q31]	MECOM (EVI1) [3q26.2]
ABL1 [9q34]	EPOR [19p13.2]	MLLT10 (AF10) [10p12]
ABL2 [1q25.2]	ETV6 (TEL) [12p13]	MLLT10 (AF10)::PICALM [t(10;11)]
ALK [2p23]	ETV6::RUNX1 (TEL::AML1)[t(12;21)]	MYC [8q24]
ATM [11q22.3]	FGFR1 [8p12]	NUP98 [11p15]
BCL2 [18q21]	FIP1L1 / CHIC2 / PDGFRA [4q12]	P2RY8 [Xp22.3/Yp11.3]
BCL6 [3q27]	IGH [14q32 abnormalities]	PBX1::TCF3 [t(1;19)]
BCR::ABL1 [t(9;22)] / LSI [9q34]	IGH::BCL2 [t(14;18)]	PDGFRB / CSF1R [5q32]
BIRC3 (API2)::MALT1 [t(11;18)]	IGH::CCND1 [t(11;14)]	PML::RARA [t(15;17)]
CBFB [16q22]	IGH::FGFR3 [t(4;14)]	RARA [17q21]
CBFB::MYH11 [inv(16)/ t(16;16)]	IGH::MAF [t(14;16)]	RUNX1::RUNX1T1 (AML1::ETO) [t(8;21)]
CCND1 [11q13]	IGH::MAFB [t(14;20)]	TCL1A [14q32]
CCND2 [12p13]	IGH::MALT1 [t(14;18)]	TP53 [17p13.1] / 17 centromere
CCND3 [6p21.1]	IGH::MYC / 8 centromere [t(8;14)]	TRAD (TCR) [14q11.2]
CDKN2A / 2B [9p21]	IGK [2p11.2]	TRB (TCRB) [7q34]
CDKN2C [1p32.3] / CKS1B [1q21.3]	IGL [22q11]	

Probes can be ordered individually or in a custom panel. Order FISH Interphase test (FISH_INT).