

ONCOLOGY FISH PROBES | FEBRUARY 2011

Molecular cytogenetics, using FISH probes, may prove informative in patient studies. Because FISH targets very specific abnormalities, it is recommended in conjunction with routine cytogenetic analysis and is billed as a separate charge.

To order individual probes, use test code 2002298 Chromosome, FISH Interphase, and specify the desired probe(s).

INDICATION		PROBE TARGET	GENE(S)/UNIQUE SEQUENCE
Acute Lymphocytic Leukemia Panel (ALL)	Adult (2002647)	8q24 t(9;22)(q34;q11.2) 11q23 14q32 19p13	MYC BCR-ABL1 MLL IGH@ TCF3 (E2A)
	Pediatric (2002719)	+4,+10,+17 t(9;22)(q34;q11.2) 11q23 t(12;21)(p13;q22) 19p13	CEP4, CEP10, CEP17 BCR-ABL1 MLL ETV6-RUNX1 (TEL-AML1) TCF3 (E2A)
Acute Myeloid Leukemia Panel (AML) (2002384)	APL M2 M4 M4, M5	t(15;17)(q22;q21) t(8;21)(q22;q22) inv(16)(p13.3q22) 11q23	PML-RARA RUNX1T1-RUNX1 (ETO-AML1) CBFB MLL
Acute Myelogenous Leukemia with Myelodysplastic Syndrome or Therapy-Related AML Panel (2002653)		del(5)(q31) del(7)(q31)--7 11q23	EGR1 D7S486 MLL
Chronic Lymphocytic Leukemia Panel (CLL) (2002295)		del(11)(q22.3) +12 del(13)(q14.3) del(17)(p13.1)	ATM D12Z3 D13S319 TP53 (p53)
Chronic Myelogenous Leukemia (CML) (2002289)		t(9;22)(q34;q11.2)	BCR-ABL1, ASS1
Eosinophilia Panel (2002378)		4q12 5q32 8p12 inv(16)	PDGFRA-CHIC2-FIP1L1 PDGFRB FGFR1 CBFB
Lymphoma (Aggressive) Panel (2002650)		3q27 8q24 t(14;18)(q32;q21)	BCL6 MYC IGH@/BCL2
Lymphoma (probes ordered individually as 2002298)	Anaplastic large cell Burkitt Diffuse large cell Follicular IGH rearrangement Mantle cell MALT	2p23 8q24 3q27 t(14;18)(q32;q21) 14q32 t(11;14)(q13;q32) 18q21	ALK MYC BCL6 IGH@-BCL2 IGH@ CCND1-IGH@ MALT1
Multiple Myeloma Panel (2002294)		1q21 +9 t(11;14)(q13;q32) 14q32 +15 del(17)(p13.1) NOTE: If IGH is positive, additional testing will include t(4;14)(p16;q32) and t(14;16)(q32;q23.1).	CKS1B ASS1 CCND1-IGH@ IGH@ PML TP53 (p53) FGFR3-IGH@ IGH@-MAF
Myelodysplastic Syndrome Panel (MDS) (2002709)		del(5)(q31) del(7)(q31)-7 +8 del(20)(q12)	EGR1 D7S486 CEP8 D20S108
Myeloproliferative Disorder Panel (MPD) (2002360)		4q12 5q33.1 8p12 t(9;22)(q34;q11.2)	PDGFRα-CHIC2-FIP1L1 PDGFRβ FGFR1 ABL1-BCR
Sarcoma (2002298)	Synovial	18q11.2	SS18 (SYT)
	Ewing	22q12.2	EWSR1
Myxoid Liposarcoma (2002298)		12q13	DDIT3 (CHOP)

FISH TESTING FOR PARAFFIN-EMBEDDED TISSUE

TEST CODE	TEST NAME
0049360	1p/19q, d(1;19) Deletion by FISH
0049378	<i>CHOP</i> Gene Rearrangement by FISH
0049234	<i>EGFR</i> by FISH
0049335	<i>EWSR1</i> Break Apart Rearrangement by FISH
2001497	<i>FKHR</i> Gene Rearrangement by FISH
0049218	HER-2/ <i>neu</i> by FISH (PathVysion™ HER-2)
2001536	<i>IGH-BCL2</i> , t(14;18) by FISH for Detection in Follicular Lymphoma
2001538	<i>IGH-MYC</i> , CEP8 t(8;14) by FISH for Detection in Burkitt Lymphoma
2002345	<i>LSI-MYC</i> , t(8q;24) by FISH
2003016	Murine Double Minute 2 by FISH
0049235	N-myc by FISH
0049380	<i>SYT</i> Rearrangement by FISH
0049381	<i>IgH-CCND1</i> , t(11;14) Translocation by FISH