



# Oncology

## Oncology Test Menu

### Cancer Cytogenetics

Chromosome Analysis

- Bone Marrow [CYTO BM]
- Solid Tumor [CYTO ST]
- Unstimulated Peripheral Blood [CYTO UPB]

### Circulating Tumor Cell Detection

CellSearch for Metastatic Breast Cancer [CELLSEARCH]

CellSearch for Metastatic Colon Cancer [CELLSEARCH]

CellSearch for Metastatic Prostate Cancer [CELLSEARCH]

### Companion Diagnostics

ABL Kinase Gene Mutation Analysis and Gleevec® Resistance [ABL G]

BRAF Mutation Analysis [BRAF]

HER2/neu PathVysion® by FISH [F HER2]

KRAS Mutation, EGFR Inhibitor Response [KRAS]

### Flow Cytometry

Cell Cycle Analysis; DNA Ploidy and S Phase [PLOIDY]

Flow Cytometry Leukemia / Non-Hodgkin Lymphoma [FLOW]

Paroxysmal Nocturnal Hemoglobinuria (CD55, CD59, FLAER) [FLOW PNH]

ZAP-70 [FLOW ZAP70]

### Fluorescence *in situ* Hybridization (FISH)

#### FISH Profiles

Acute Lymphoblastic Leukemia Adult Profile by FISH [F AALL]  
BCR/ABL 9q34 t(9;22), MLL 11q23, TEL/AML1 t(12;21)

Acute Lymphoblastic Leukemia Pediatric Profile by FISH [F PALL]  
BCR/ABL 9q34 t(9;22), MLL 11q23, TEL/AML1 t(12;21),  
trisomy 4, trisomy 10, trisomy 17

Burkitt / Large B-cell Lymphoma Profile [F BURKITT]  
BCL6 3q27, BCL2 t(14;18), C MYC 8q24

Chronic Lymphocytic Leukemia Profile by FISH [F CLL]  
p53 del(17)(p13.1), ATM del(11)(q22.3), del(13)(q14.3), +12, MYB  
del(6q)(q23)

Myelodysplastic syndrome Profile by FISH [F MDS]  
EGR1 -5/5q-, CEP 7 -7/7q31-, +8, del(20)(q12)

Myeloma Profile by FISH [F MM] with autoreflex  
5/+9/+15, del(13)(q14.3), IGH/CCND1 t(11;14), p53 del(17)(p13.1)  
If IGH rearranged reflex: IGH/FGFR3 t(4;14), IGH/MAF t(14;16)

Myeloproliferative Profile by FISH [F MPD]  
BCR/ABL 9q34 t(9;22), +8, del(13)(q14.3), del(20)(q12)

#### FISH Probes (A-Z)

ALK 2p23 Gene Rearrangement  
Anaplastic Large Cell Lymphoma [F ALK]

AML1/ETO t(8;21) [F AML ETO]

API2 / MALT1 t(11;18) [F API MALT]

ATM deletion 11q22.3 [F ATM]

BCL1 IGH/CCND1 t(11;14) [F BCL1]

BCL2 IGH/BCL2 t(14;18) [F BCL2]

BCL6 3q27 Rearrangement [F BCL6]

BCR/ABL +9q34, t(9;22) [F BCR ABL]

C MYC 8q24 Rearrangement [F CMYC]

CBFB t(16;16), inv(16) [F CBFB]

CEP7 -7/7q31- [F CEP7]

deletion 13q14.3 [F D1314]

deletion 20q12 [F D20]

EGR1 -5/5q- [F EGFR]

EGFR 7p12 [F EGFR]

EWSR1 22q12 Rearrangement Ewing Sarcoma [F EWSR1]

FIP1L1/PDGFR4 4q12 Rearrangement [F 4Q12]

HER2/neu PathVysion® [F HER2]

IGH 14q32 Rearrangement [F IGH]

IGH/FGFR3 t(4;14) [F FGFR3]

IGH/MAF t(14;16) [F IGH MAF]

IGH/MALT1 t(14 ;18) [F IGH MALT]

IGH/MYC, CEP 8, t(8; 14) [F IGH MYC]

MALT1 18q21 [F MALT]

MLL 11q23 [F MLL]

MYB deletion 6 [F MYBD6]

N-MYC 2p24.1 [F N MYC]

Oligodendroglioma 1p36-/19q13- Glioma [F GLI]

p53 deletion 17p13 [F P53]

PML/RARA t(15,17) [F PML RARA]

PTEN/CEP10 deletion 10q23 [F PTEN]

SYT 18q11.2 Synovial Sarcoma [F SYT]

TEL/AML1 t(12;21) [F TEL AML1]

trisomy 3 [F T3]

trisomy 4 [F T4]

trisomy 5, 9 and 15 [F T5T9T15]

trisomy 8 [F T8]

trisomy 10 [F T10]

trisomy 12 [F T12]

UroVysion (R) +3/+7/+17/deletion 9p21 [F URO]



## Immunohistochemistry (IHC)

Refer to A-Z Listing of IHC Markers

## In situ Hybridization (ISH)

Kappa [I KAP ISH]

Lambda [LAM ISH]

Epstein Barr Virus [I EBER ISH]

## Molecular Oncology

ABL Kinase Gene Mutation Analysis and Gleevec® Resistance  
[ABL G]

AML Mutation Analysis by PCR [P AML]

B-Cell Immunoglobulin Heavy Chain Gene Rearrangement by PCR  
[P BCELL]

B-Cell Immunoglobulin Kappa Light Chain Gene Rearrangement by  
PCR [P IGK]

BCL2 t(14;18) Gene Rearrangement by PCR [P BCL2]

BCR/ABL Quantitative PCR Disease Monitoring [P BCR ABLm]

BCR/ABL Quantitative PCR Initial Diagnostic Workup [P BCR ABL]

BRAF Mutation Analysis [BRAF]

CEBPA Mutation Analysis [CEBPA]

EGFR Mutation Comprehensive Analysis Exon 18-21 [P EGFR]

FLT3 Mutation Analysis [FLT3]

Human Papillomavirus Genotyping [HPV G]

JAK2 V617F Mutation Analysis by PCR [P JAK2]

KRAS Mutation, EGFR Inhibitor Response [KRAS]

NPM1 Mutation Analysis [NPM1]

PML/RARA Quantitative PCR Disease Monitoring [P PML RARAM]

PML/RARA Quantitative PCR Initial Diagnostic Workup  
[P PML RARA]

T-Cell Receptor Gamma Gene Rearrangement by PCR [P TCR]

UGT1A1 Genotyping [UGT1A1]

## Pathology

Bone Marrow Pathology Consultation [BMP P]

Bone Marrow Pathology Evaluation [BMPE]

Surgical Pathology Consultation [SPC]

Surgical Pathology Professional [SPP]

## Pharmacogenetics

UGT1A1 Genotyping [UGT1A1]