

Clariant Panel Descriptions

FLOW CYTOMETRY PANELS

The minimum number of markers necessary to arrive at a final diagnosis will be used and are determined by the suspected diagnosis, histology and working diagnosis.

Comprehensive Panel Analysis

CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11b, CD11c, CD13, CD14, CD15, CD16, CD19, CD20, CD33, CD34, CD38, CD45, CD56, CD64, CD117, Kappa, Lambda, HLA-DR

B- and T-Cell Panel Analysis

CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11c, CD13, CD14, CD16, CD19, CD20, CD22, CD23, CD38, CD45, CD56, Kappa, Lambda, FMC-7

Plasma Cell Panel Analysis

CD19, CD38, CD45, CD56, CD117, CD138, cKappa, cLambda

Chronic Lymphocytic Leukemia/small Lymphocytic Leukemia (CLL/SLL)ZAP-70 Panel Analysis

ZAP-70, CD3, CD5, CD19, CD45

FISH PANELS

The minimum number of markers necessary to arrive at a final diagnosis will be used and are determined by the suspected diagnosis, histology and working diagnosis.

Chronic Lymphocytic Leukemia (CLL/SLL)

ATM (11q22 deletion)
D13S319 (13q deletion)
p53 (17p13 deletion)
Trisomy12 (+12)

Plasma Cell Neoplasm/Myeloma

D13S319 (13q deletion)
p53 (17p13 deletion)
IGH Translocations
* t(11;14), IGH/CCND1
* t(4;14), IGH/FGFR3
* t(14;16), (IGH/MAF) – optional

Myelodysplastic Syndromes (MDS)

5q33.34 (-5/5q-)
7q31 (-7/7q-)
20q12 (20q deletion)
Trisomy 8 (+8)

Non-Hodgkin Lymphoma (NHL)

IGH/CCND1, t(11;14)
MYC Rearrangement (8q24)
BCL2 Rearrangement
IGH/BCL2, t(11;14)
Trisomy 12 (+12)
IGH/MYC

CYTOCHEMICAL STAINS

Myeloperoxidase (MPO) Nonspecific esterase (NSE) Acid fast bacilli (AFB) Gomori methenamine silver (GMS) Warthin-Starry silver Congo red Gram stain

PCR Assays

BCR/ABL Major (p210; b2a2 or b2a3)
BCR/ABL Minor (p190; e1a2)
PML/RARA, t(15;17) for APL
B-Cell (IGH) Gene Rearrangement, B-Cell Clonality
T-Cell (TCR-β, -γ) Gene Rearrangement, T-Cell Clonality
JAK2 Mutation Analysis for PV, ET, CIMF
IGH/CCND1, t(11;14) for MCL
IGH/BCL2, t(14;18) for FL
FLT3 ITD mutation analysis for AML
FIP1L1/PDGFRα (4q12 deletion)
NPM1 mutation analysis for AML
MPL mutation analysis for ET, CIMF

Individual FISH Tests

IGH/CCND1; t(11;14)
IGH/BCL2; t(14;18)
BCL2 Rearrangement (18q21)
IGH/MYC; t(8;14)
MYC Rearrangement (8q24)
BCL6 Rearrangement (3q27)
IGH Rearrangement (14q32)
AP12/MALT1; t(11;18)
MALT Rearrangement (18q21)
IGH/FGFR3; t(4;14)
IGH/MAF; t(14;16)
ATM (11q22 deletion)
D13S319 (13q deletion)
p53 (17p deletion)
Trisomy 12 (+12)
AML1/ETO; t(8;21)
PML/RARA; t(15;17)
RARA Rearrangement; t(17q12-21)
CBFB Rearrangement; inv(16), t(16;16)
MLL Rearrangement (11q23)
5q33.34 (-5/5q-)
7q31 (-7/7q-)
Trisomy 8 (+8)
20q12 (20q deletion)
BCR/ABL; t(9;22)
FIP1L1/PDGFRα (4q12 deletion)
PDGFRB Rearrangement (5q33)