

## ANATOMIC PATHOLOGY

(CGI-Branded Tests)

Over 100 validated antibodies (see back page)

## FLOW CYTOMETRY

### Lymphoid Panel

CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11c, CD19, CD20, CD23, CD38, CD45, CD56, CD57, sKappa, sLambda

### Myeloid Panel

CD11b, CD13, CD14, CD15, CD16, CD22, CD33, CD34, CD64, CD71, CD117, HLA-DR

### Acute Leukemia Panel [Reflex]

cMPO, cCD79a, cCD3, cTdT, CD1a, cCD22, CD45

### Hairy Cell Leukemia Panel [Reflex]

CD20, CD25, CD45, CD103

### ZAP-70 Panel [Reflex]

CD3, CD5, CD19, cZAP-70, CD45

### MRD-CLL Panel

CD3, CD5, CD19, CD20, CD22, CD38, CD43, CD45, CD79b, CD81, sLambda, sKappa

### Multiple Myeloma Panel

CD3, CD4, CD5, CD7, CD8, CD10, CD19, CD20, CD28, CD34, CD38, CD45, CD56, CD117, CD138, sKappa, sLambda, cKappa, cLambda, clgM, clgA, clgG

### Paroxysmal Nocturnal Hemoglobinuria Panel

CD14, CD15, CD24, CD33, CD45, CD59, FLAER

## KARYOTYPE (G-BANDING)

## FLUORESCENCE IN-SITU HYBRIDIZATION (FISH)

### HEMATOLOGICAL MALIGNANCIES

#### Acute Lymphocytic Leukemia (B-ALL)

- 11q23 (MLL-Break Apart)
- 9p21 (CDKN2A[p16])
- t(9;22) (BCR/ABL/ASS)
- t(12;21)(ETV6/RUNX1)
- CEP 4,10,17
- 17p13 (TP53)

#### Acute Lymphocytic Leukemia (T-ALL)

- 14q11 (TCR-Alpha/Delta Break Apart)

#### Acute Myeloid Leukemia (AML)

- 11q23 (MLL-Break Apart)
- t(15;17) (PML/RARA) [M3]
- t(8;21) (ETO/AML1) [M2]
- inv(16) (CBFB-Break Apart) [M4,Eos]

#### Anaplastic Large Cell Lymphoma (ALCL)

- 2p23 (ALK-Break Apart)

#### BM Transplant Monitoring

- CEP X/Y

#### Chronic Lymphocytic Leukemia (CLL)

- CEP6/6q23 (c-MYB)
- t(11;14)(CCND1/IGH)
- 11q22.3(ATM)/17p13(TP53)
- CEP12/13q14(D13S319)/13q34

#### Chronic Myelogenous Leukemia (CML)

- t(9;22)(BCR/ABL/ASS)

#### CML in Blast Crisis

- 17p13 (TP53)
- CEP8
- t(9;22) (BCR/ABL/ASS)

#### Multiple Myeloma (MM)

- 1p/1q
- 17p13 (TP53)
- t(4;14) (FGFR3/IGH)
- 13q14/13q34
- t(11;14) (CCND1/IGH)
- t(14;16)(IGH/MAF)
- D5S23/D5S71/CEP9/CEP15

#### MM CD138 - Plasma Cell Purification

- 1p/1q
- 17P13 (TP53)
- IGH-Break Apart\*
- D5S23/D5S71/CEP9/CEP15
- 13q14/13q34

\*If positive reflex to: CCND1/IGH; FGFR3/IGH; IGH/MAF; IGH/MAFB; CCND3/IGH

#### Myelodysplastic Syndrome (MDS)

- 5q15.2/5q31
- CEP8
- CEP7/7q31
- 20q12
- 11q23 (MLL-Break Apart)

#### Myeloproliferative Neoplasms (MPN)

- 4q12 (FIP1L1/CHIC2/PDGFR)
- BCR/ABL (BCR/ABL/ASS)
- 5q33 (PDGFRB-Break Apart)
- FGFR1-Break Apart

#### Non-Hodgkin's Lymphoma (NHL)

- t(8;14) (MYC/IGH)
- t(11;14) (CCND1/IGH)
- MALT1-Break Apart
- t(14;18) (IGH/BCL2)
- c-MYC-Break Apart
- IGH-Break Apart
- BCL2-Break Apart
- 3q27 (BCL6-Break Apart)

### SOLID TUMORS

#### Bladder Cancer

- UroVysion®

#### Brain Cancer

- 1p/19q deletion
- PTEN

#### Breast Cancer

- FGFR1
- PathVysion® (HER2/neu)
- PTEN

#### Cervical Cancer

- FHACT®

#### Gastric Cancer

- HER2 Amplification

#### Lung Cancer

- ALK-Break Apart
- FGFR1
- MET
- RET
- ROS1

## MOLECULAR DIAGNOSTICS

### HEMATOLOGICAL MALIGNANCIES

#### Acute Myeloid Leukemia (AML)

- CEBCA Mutation
- FLT3 Mutation (ITD, D835)
- Focus::AML™ (37 genes)
- KIT Mutation (Exon 8 and 17)
- NPM1 Mutation (Exon 12)

#### Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma (CLL/SLL)

- Focus::CLL™ (25 genes)
- IGHV Mutation
- MatBA®-CLL/SLL Array-CGH
- NOTCH1 Mutation
- SF3B1 Mutation
- TP53 Mutation

#### Lymphoma

- B-Cell Clonality (IGH)
- Focus::DLBCL&FL™ (45 genes)
- Focus::MCL™ (34 genes)
- Focus::Lymphoma™ (50 genes)
- Lymphoma Extended™ (220 genes)
- MatBA®-DLBCL Array-CGH
- MatBA®-FL Array-CGH
- MatBA®-MCL Array-CGH
- MYD88 L265P Mutation
- NOTCH1 Mutation
- T-Cell Clonality (TCRβ)
- T-Cell Clonality (TCRγ)
- TP53 Mutation

#### Chronic Myeloid Leukemia (CML)

- ABL Kinase Domain Mutation
- BCR-ABL Qualitative
- BCR-ABL Quantitative Major (p210)
- BCR-ABL Quantitative Minor (p190)
- Focus::Myeloid™ (50 genes)

#### Myelodysplastic Syndrome (MDS)

- Focus::MDS™ (27 genes)

#### Myeloproliferative Neoplasms (MPN)

- CALR Mutation
- Focus::MPN™ (25 genes)
- JAK2 V617F Mutation
- if negative, reflex to: CALR; MPL 515/505; JAK2 Exon 12
- JAK2 Exon 12 Mutation
- KIT (D816) Mutation
- MPL 515/505 Mutation

### SOLID TUMORS

#### Bladder Cancer

- Focus::OncoPrint™ (35 genes)

#### Brain Cancer

- EGFRVIII Mutation
- IDH1 & IDH2 Mutations
- MGMT Methylation

#### Breast Cancer

- EGFR Mutation
- Focus::OncoPrint™ (35 genes)
- PIK3CA Mutation

#### Colorectal Cancer (CRC)

- BRAF Mutation
- cMET Gene Expression
- EGFR Mutation
- ERCC1 Expression
- Focus::OncoPrint™ (35 genes)
- KRAS Mutation
- Microsatellite Instability (MSI)
- NRAS Mutation
- PIK3CA Mutation
- TS Gene Expression
- UGT1A1 Mutation
- VEGFR2 Gene Expression

#### Endometrial Cancer

- PIK3CA Mutation

#### Kidney Cancer

- Focus::Renal™ (32 genes)
- UroGenRA®-Kidney Array-CGH

#### Gastrointestinal Cancer

- BRAF Mutation
- cMET Gene Expression
- ERCC1 Expression
- TS Gene Expression

#### Lung Cancer

- BRAF Mutation
- cMET Gene Expression
- EGFR Expression
- EGFR Mutation cobas® [FDA-cleared]
- EML4-ALK RNA Fusion
- ERCC1 Expression
- Focus::OncoPrint™ (35 genes)
- HER2 Mutation
- KRAS Mutation
- PIK3CA Mutation
- ROS1 RNA Fusion
- RRM1 Gene Expression
- TS Gene Expression

#### Melanoma

- BRAF Mutation
- BRAF Mutation cobas® [FDA-cleared]
- Focus::OncoPrint™ (35 genes)
- NRAS Mutation

#### Ovarian Cancer

- BRAF Mutation
- KRAS Mutation
- PIK3CA Mutation

#### Thyroid Cancer

- BRAF Mutation
- Focus::OncoPrint™ (35 genes)
- KRAS Mutation
- NRAS Mutation

#### Tissue of Origin

- Tissue of Origin® [FDA-cleared]
- Tissue of Origin® Endometrial
- Tissue of Origin® Head & Neck

### HEREDITARY CANCERS

#### Hereditary Breast & Ovarian Cancer (HBOC)

- Focus::BRCA™ (2 genes)
- Focus::HERSite™ (16 genes)

**COMPLETE™ PROGRAMS**

(CGI-Branded Tests)

**HEMATOLOGICAL MALIGNANCIES**
**AML COMPLETE™**

- CEBPA Mutation
- FLT3 Mutation (ITD, TDK)
- **Focus::AML™** (NGS)
- KIT Mutation (Exon 8 & 17)
- NPM1 Mutation
- Myeloid/Lymphoid Flow Panel
- Karyotype
- AML FISH Panel

**CLL COMPLETE™**

- **Focus::CLL™** (NGS)
- IGHV Mutation
- **MatBA®-CLL/SLL Array-CGH**
- NOTCH1 Mutation
- SF3B1 Mutation
- TP53 Mutation
- Lymphoid Flow Panel
- ZAP-70 (Flow)
- Karyotype
- CLL FISH Panel

**DLBCL COMPLETE™**

- B-Cell Clonality
- **Focus::DLBCL&FL™** (NGS)
- **MatBA®-DLBCL Array-CGH**
- TP53 Mutation
- GCB vs. Non-GCB Subtyping
- Ki67 (IHC)
- MYC (IHC)
- Lymphoid Flow Panel
- Karyotype
- NHL FISH Panel

**MDS COMPLETE™**

- **Focus::MDS™** (NGS)
- Myeloid/Lymphoid Flow Panel
- Karyotype
- MDS FISH Panel

**MPN COMPLETE™**

- ABL Kinase Domain Mutation
- BCR-ABL1 Quantitative Mutation
- CALR Mutation
- **Focus::MPN™** (NGS)
- JAK2 Exon 12 Mutation
- JAK2 V617F Mutation
- KIT D816 Mutation
- MPL 515/505 Mutation
- Myeloid/Lymphoid Flow Panel
- Karyotype
- MPN FISH Panel

**SOLID TUMORS**
**BREAST COMPLETE™**

- **Focus::BRCA™** (NGS)
- **Focus::HERSite™** (NGS)
- **Focus::Oncomine™** (NGS)
- Ki67 (IHC)
- p53 (IHC)
- HER2 (IHC)
- HER2 (Dual ISH)
- HER2 (FISH)

**CRC COMPLETE™**

- BRAF Mutation
- **Focus::Oncomine™** (NGS)
- KRAS Mutation
- Microsatellite Instability (MSI)
- NRAS Mutation
- PIK3CA Mutation
- BRAF (IHC)
- Mismatch Repair (MMR) (IHC)

**LUNG COMPLETE™**

- BRAF Mutation
- EGFR Mutation cobas® v2
- **Focus::Oncomine™** (NGS)
- HER2 Mutation
- KRAS Mutation
- ALK D5F3 (IHC)
- PD-L1 22C3 (Keytruda®) (IHC)
- PD-L1 28-8 (Opdivo®) (IHC)
- ALK-Break Apart (FISH)
- MET (FISH)
- RET (FISH)
- ROS1 (FISH)

**ANATOMIC PATHOLOGY**

- Actin, α-Smooth Muscle
- Actin, Muscle Specific
- ALK1
- ALK D5F3 FDA (crizotinib)
- Alpha Fetoprotein (AFP)
- Annexin A1
- Basal Cell Cocktail
- Bcl-2
- Bcl-6
- BRAF
- Beta-catenin
- BOB-1
- BCL2-Break Apart
- Breast Triple Stain (CK5+p63+CK8/18)
- c-MET
- c-Myc
- CA 19-9
- CA 125
- Calcitonin
- Caldesmon
- Calponin-1
- Calretinin
- CEA (m)
- CEA (p)
- CD1a
- CD2
- CD3
- CD4
- CD5
- CD7
- CD8
- CD10 (CALLA)
- CD14
- CD15
- CD20
- CD21
- CD22
- CD23
- CD25

- CD33
- CD31
- CD34
- CD35
- CD43
- CD45 (LCA)
- CD45RA
- CD45RO
- CD56
- CD57
- CD61
- CD68
- CD79a
- CD99
- CD117 (c-KIT)
- CD138 (Syndecan-1)
- CD163
- CDX-2
- Chromogranin A
- CMV
- Cyclin D1(BCL-1)
- Cytokeratin (CAM 5.2)
- Cytokeratin (Pan) (AE1/AE3)
- Cytokeratin 903 (34βE12)
- Cytokeratin 14
- Cytokeratin 17
- Cytokeratin 19
- Cytokeratin 20
- Cytokeratin 5 & 6
- Cytokeratin 7
- Cytokeratin 8 (34BH11)
- Cytokeratin 8 & 18
- DBA44
- Desmin
- DOG-1
- EBER (ISH)
- E-cadherin
- EGFR
- EMA
- Ep-CAM (BER-EP4)

- ER
- Factor-1
- Factor VIII Rel. Antigen
- Factor XIIIa
- Fascin
- FGF2
- FLI-1
- Foxp1
- Gastrin
- GCDFP-15
- GCET-1
- GFAP
- Glucagon
- Glycophorin A
- Glypican 3
- Granzyme B
- HBME-1
- hCG
- Helicobacter pylori
- HepPar-1
- HER-2/neu (IHC)
- HER-2 (ISH)
- HHV-8
- HMB-45
- HPV Probe ISH
- HSA
- HSV I
- HSV II
- IgA
- IgD
- IgG
- IgG4
- IgM
- Inhibin, alpha
- Insulin
- Kappa
- Kappa By ISH
- Ki-67
- Lambda
- Lambda By ISH

- LMO2
- Lysozyme (muramidase)
- Mammaglobin Cocktail
- Melan A (MART-1)
- Melanoma HMB-45
- Mast cell tryptase
- MLH1
- MOC31
- MSH2
- MSH6
- MUC2
- MUC5AC
- MUC6
- MUM1
- Myelin Basic Protein
- Myeloperoxidase (MPO)
- MyoD
- Myogenin
- Myoglobin
- Napsin A
- Neurofilament (NF)
- Neuron Specific Anolase (NSE)
- Oct-2
- Oct-3/4
- p16 INC4A
- Double Stain (p16/Ki-67)
- p53
- p57
- p63
- p120
- p504S (Racemase)
- Pan-Cytokeratin
- Parathyroid Hormone (PTH)
- Parvovirus B19
- PAX-2
- PAX5 (BSAP)
- PAX8
- PD-1
- PD-L1 22C3 FDA (Keytruda®)
- PD-L1 28-8 FDA (Opdivo®)

- PD-L1 SP263 (non-lung, LDT)
- PD-L1 SP142 FDA (Tecentriq™)
- Perforin
- Placental Alkaline
- Phosphatase (PLAP)
- PLAP
- PMS2
- PNEUMOCYSTIS CARINII
- Podoplanin (D2-40)
- PR
- Prostate Acid Phosphatase (PSAP)
- Prostate Triple Stain (ck903, p63 & Racemase)
- PSA
- PSAP
- Pyloric
- RCC
- S100
- SMMHC
- Somatostatin
- Sox11
- Synaptophysin
- TAG-72
- TdT
- Thrombomodulin
- Thyroglobulin
- TIA-1
- Toxoplasma
- TTF-1 Thyroid Transcription
- TRAcP
- Tryptase
- Tyrosinase
- Uroplakin III
- Villin
- Vimentin
- WT1