

ANATOMIC PATHOLOGY

CGI-Branded Tests | FDA-Cleared Tests

Over 200 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)
- 11q22.3(ATM)/17p13(TP53)
- t(11;14)(CCND1/IGH)
- 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)

- CEBPA 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::Oncomine™ (35 genes)

Brain Cancer

- EGFRV8 Mutation
- IDH1 & IDH2 Mutations
- MGMT Methylation

Breast Cancer

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

Colorectal Cancer (CRC)

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

Endometrial Cancer

- PIK3CA Mutation

Gastrointestinal Cancer

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

Kidney Cancer

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

Lung Cancer

- BRAF Mutation
- cMET Gene Expression
- EGFR Expression
- EGFR Mutation cobas®
- EML4-ALK RNA Fusion
- ERCC1 Expression
- Focus::Oncomine™ (35 genes)
- HER2 Mutation
- KRAS Mutation
- Liquid::Lung-cfDNA™ (11 genes)
- Oncomine™ Dx Target Test (23 genes)
- PIK3CA Mutation
- ROS1 RNA Fusion
- RRM1 Gene Expression
- TS Gene Expression

Melanoma

- BRAF Mutation
- BRAF Mutation cobas®
- Focus::Oncomine™ (35 genes)
- NRAS Mutation

Ovarian Cancer

- BRAF Mutation
- KRAS Mutation
- PIK3CA Mutation

Thyroid Cancer

- BRAF Mutation
- Focus::Oncomine™ (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 | FDA-Cleared 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)
- Oncomine™ Dx Target Test (NGS)
- HER2 Mutation
- KRAS Mutation
- Liquid::Lung-cfDNA™ (NGS)
- 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
- ApoE
- 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
- CD30
- CD33

- CD31
- CD34
- CD35
- CD43
- CD45 (LCA)
- CD45RA
- CD45RO
- CD56
- CD57
- CD61
- CD68
- CD79a
- CD99
- CD117 (c-KIT)
- CD138 (Syndecan-1)
- CD152 (CTLA4)
- CD163
- CD357 (GITR)
- 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
- DKK1
- DOG-1
- EBER (ISH)
- E-cadherin
- EGFR
- eIF4E
- EMA
- Ep-CAM (BER-EP4)

- ER
- Factor-1
- Factor VIII Rel. Antigen
- Factor XIIIa
- Fascin
- FGF2
- FGFR1
- FLI-1
- FoxP1
- FoxP3
- Gastrin
- GCDFFP-15
- GCET
- GCET-1
- GFAP
- Glucagon
- Glycophorin A
- Glypican 3
- Granzyme B
- HBME-1
- hCG
- HDAC1
- HDAC2
- HDAC3
- HDAC6
- Helicobacter pylori
- HepPar-1
- HER-2/neu (IHC)
- HER-2 (ISH)
- HHV-8 (Merkel Cell Ca)
- HMB-45
- HPV HR
- HPV LR
- 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
- LRP1
- 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 (Keytruda®)
- PD-L1 28-8 (Opdivo®)
- PD-L1 SP263 (Imfinzi™)
- PD-L1 SP142 (Tecentriq™)
- Perforin
- Placental Alkaline
- Phosphatase (PLAP)
- phospho-eIF4E
- PLAP
- PMS2
- Pneumocystis carinii
- Podoplanin (D2-40)
- PR
- Prostate Acid Phosphatase (PSAP)
- Prostate Triple Stain (ck903, p63 & Racemase)
- PSA
- PSAP
- Pyloric
- RAD23B
- 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

TUMOR MICROENVIRONMENT:

- B cells: CD20/CD79/Pax5
- T cells: CD2, CD3, CD4, CD5, CD7, CD8
- Teff: TIA1
- NK: CD56, CD57
- Tsupp: CTLA4
- Treg: CD4, CD25, FoxP3
- Macrophages: CD68, CD14, CD15

DRUG TARGETS:

- ALK-1
- Bcl-2
- Bcl-6
- BRAF
- CD19
- CD20
- CD30
- c-MYC
- eIF4E
- HDAC1
- HDAC2
- HDAC3
- HDAC6
- PD-L1 22C3

- PD-L1 28-8
- PD-L1 SP142
- PD-L1 SP263
- phospho-eIF4E