



This is a representative listing of available test offerings. Interpace Pharma Solutions can build custom solutions to meet client specifications.

MOLECULAR ASSAYS

NGS Heme Panels

Focus::Myeloid™ – [50 genes]*

ABL1, ASXL1, ATRX, BCOR, BRAF, CALR, CBL, CBLB, CBLC, CEBPA, CSF3R, DNMT3A, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GNAS, HRAS, IDH1, IDH2, IKZF1, JAK2, JAK3, KDM6A, KIT, KMT2A (MLL), KRAS, MPL, MYD88, NOTCH1, NPM1, NRAS, PDGFRA, PHF6, PTEN, PTPN11, RAD21, RUNX1, SETBP1, SF3B1, SMC1A, SMC3, SRSF2, STAG2, TET2, TP53, U2AF1, WT1

VARIANTPlex® Myeloid [75 genes]*

ABL1, ANKRD26, ASXL1, ATRX, BCOR, BCORL1, BRAF, BTK, CALR, CBL, CBLB, CBLC, CCND2, CDC25C, CDKN2A, CEBPA, CSF3R, CUX1, CXCR4, DCK, DDX41, DHX15, DNMT3A, ETNK1, ETV6, EZH2, FBXW7, FLT3, GATA1, GATA2, GNAS, HRAS, IDH1, IDH2, IKZF1, JAK2, JAK3, KDM6A, KIT, KMT2A, KRAS, LUC7L2, MAP2K1, MPL, MYC, MYD88, NF1, NOTCH1, NPM1, NRAS, PDGFRA, PHF6, PPM1D, PTEN, PTPN11, RAD21, RBBP6, RPS14, RUNX1, SETBP1, SF3B1, SH2B3, SLC29A1, SMC1A, SMC3, SRSF2, STAG2, STAT3, TET2, TP53, U2AF1, U2AF2, WT1, XPO1, ZRSR2

Focus::CLL™ – [7 genes]*

ATM, BIRC3, CARD11, MYD88, NOTCH1, SF3B1, TP53

NanoString

IPS offers all of NanoString's panels on the company menu and has a collaborative relationship with the company to integrate custom content and panel designs for our clients.

Now Available

GeoMx® Digital Spatial Profiling

*These assays have been analytically validated to CLIA standards. Individual markers contained on each assay would require further clinical validation to be used for in vitro diagnostic purposes.

†RUO only

NGS Solid Tumor Panels

Focus::OncoPrint™*

DNA panel [35 genes – hotspot mutations]

AKT1, ALK, AR, BRAF, CDK4, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ERBB4, ESR1, FGFR2, FGFR3, GNA11, GNAQ, HRAS, IDH1, IDH2, JAK1, JAK2, JAK3, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, PDGFRA, PIK3CA, RAF1, RET, ROS1, SMO

DNA panel [19 genes – focal CNV gains]

ALK, AR, BRAF, CCND1, CDK4, CDK6, EGFR, ERBB2, FGFR1, FGFR2, FGFR3, FGFR4, KIT, KRAS, MET, MYC, MYCN, PDGFRA, PIK3CA

RNA panel - [23 genes – fusion drivers]

ABL1, AKT3, ALK, AXL, BRAF, EGFR, ERBB2, ERG, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, MET, NTRK1, NTRK2, NTRK3, PDGFRA, PPARG, RAF1, RET, ROS1

OncoPrint™ Comprehensive Assay v3 - [161 genes]†

DNA [hotspot genes]

AKT1, AKT2, AKT3, ALK, AR, ARAF, AXL, BRAF, BTK, CBL, CCND1, CDK4, CDK6, CHEK2, CSF1R, CTNNB1, DDR2, EGFR, ERBB2, ERBB3, ERBB4, ERCC2, ESR1, EZH2, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, FOXL2, GATA2, GNA11, GNAQ, GNAS, H3F3A, HIST1H3B, HNF1A, HRAS, IDH1, IDH2, JAK1, JAK2, JAK3, KDR, KIT, KNSTRN, KRAS, MAGOH, MAP2K1, MAP2K2, MAP2K4, MAPK1, MAX, MDM4, MED12, MET, MTOR, MYC, MYCN, MYD88, NFE2L2, NRAS, NTRK1, NTRK2, NTRK3, PDGFRA, PDGFRB, PIK3CB, PIK3CA, PPP2R1A, PTPN11, RAC1, RAF1, RET, RHEB, RHOA, ROS1, SF3B1, SMAD4, SMO, SPOB, SRC, STAT3, TERT, TOP1, U2AF1, XPO1

DNA [full-length genes]

ARID1A, ATM, ATR, ATRX, BAP1, BRCA1, BRCA2, CDK12, CDKN1B, CDKN2A, CDKN2B, CHEK1, CREBBP, FANCA, FANCD2, FANCI, FBXW7, MLH1, MRE11, MSH6, MSH2, NBN, NF1, NF2, NOTCH1, NOTCH2, NOTCH3, PALB2, PIK3R1, PMS2, POLE, PTCH1, PTEN, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RNF43, RB1, SETD2, SLX4, SMARCA4, SMARCB1, STK11, TP53, TSC1, TSC2

DNA [copy number genes]

AKT1, AKT2, AKT3, ALK, AXL, AR, BRAF, CCND1, CCND2, CCND3, CCNE1, CDK2, CDK4, CDK6, EGFR, ERBB2, ESR1, FGF19, FGF3, FGFR1, FGFR2, FGFR3, FGFR4, FLT3, IGF1R, KIT, KRAS, MDM2, MDM4, MET, MYC, MYCL, MYCN, NTRK1, NTRK2, NTRK3, PDGFRA, PDGFRB, PIK3CB, PIK3CA, PPARG, RICTOR, TERT

RNA [gene fusions (inter- and intragenic)]

AKT2, ALK, AR, AXL, BRCA1, BRCA2, BRAF, CDKN2A, EGFR, ERBB2, ERBB4, ERG, ESR1, ETV1, ETV4, ETV5, FGFR1, FGFR2, FGFR3, FGR, FLT3, JAK2, KRAS, MDM4, MET, MYB, MYBL1, NF1, NOTCH1, NOTCH4, NRG1, NTRK1, NTRK2, NTRK3, NUTM1, PDGFRA, PDGFRB, PIK3CA, PRKACA, PRKACB, PTEN, PPARG, RAD51B, RAF1, RB1, RELA, RET, ROS1, RSPO2, RSPO3, TERT

LIQUIDPlex™ ctDNA 28†

AKT1, ALK, AR, BRAF, CTNNB1, DDR2, EGFR, ERBB2, ESR1, FGFR1, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MET, MTOR, NRAS, NTRK1, NTRK3, PDGFRA, PIK3CA, RET, ROS1, SMAD4, TP53

Additional Platforms and Equipment

- Sanger Sequencing
- Fragment Analysis
- Pyrosequencing
- qPCR
- Luminox (Nucleic Acid)

ANATOMIC PATHOLOGY

Antibody Listing

IHC

ALK D5F3 FDA (Xalkori®), APOE, BCL2, BCL6, BRAF, CD10, CD117, CD15, CD16, CD19, CD20, CD21, CD22, CD23, CD3, CD30, CD34, CD4, CD45, CD5, CD8, CKB, Cleaved Caspase, c-MYC, Cyclin D1, EGFR, ER, FoxP1, Glycophorin, GR, GRANZYME B, HER-2 4B5 FDA (Herceptin®), Kappa, Ki-67, Lambda, LMO2, LRP1, MUM1, p70S6K, PAX5, PD-1, PD-L1 22C3 FDA (Keytruda®), PD-L1 28-8 FDA (Opdivo®),

PD-L1 SP142 FDA (Imfinzi®), PD-L1 SP263 FDA (Tecentriq®), p-p70S6K, PR, p-rpS6, rpS6, S100, VIMENTIN

ISH

Kappa, Lambda

Special Stains

- Reticulin
- Trichrome
- Wright-Giemsa

Now Available

RNAscope® ISH

• Denotes an FDA-cleared or FDA-approved test. These *in vitro* diagnostic test kits are provided by a third-party manufacturer. Additional details and indications for use can be provided upon request.

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FLOW CYTOMETRY

Complete:IO™

CD194 (CCR4), CD196 (CCR6), CCR7 (CD197), CD183 (CXCR3), CD38, CD3, CD4, CD8, HLA-DR, CD45, CD45RA, CD45RO, CD25, CD127, CD24, CD27, CD20, CD19, CD1d, CD38, CD5, FoxP3, IgM

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, cTdt, cCD79a, CD1a, CD34, cCD3, cCD22

ZAP-70 Panel [Reflex]

CD3, CD5, CD19, CD45, cZAP-70

MRD-CLL Panel

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

Multiple Myeloma Panel

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

Additional Flow Markers

CD1a, CD1d, CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD11b, CD11c, CD13, CD14, CD15, CD16, CD20, CD22, CD23, CD24, CD25, CD27, CD28, CD33, CD34, CD38, CD43, CD45, CD45RA, CD45RO, CD56, CD57, CD64, CD71, CD79a, CD79b, CD81, CD117, CD127, CD138, CD183 (CXCR3), CD194 (CCR4), CD196 (CCR6), CD274 PD-L1, FoxP3, HLA-DR, IgA, IgD, IgG, IgM, Kappa, Lambda, MPO, Tdt, ZAP70

CYTOGENETICS: 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)
- t(1;19) PBX1-TCF3(E2A)
- 4q12/D10Z1/D17Z1

Acute Myeloid Leukemia (AML)

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

Anaplastic Large Cell Lymphoma

- 2q23 (ALK-Break Apart)

BM Transplant Monitoring

- CEP X/Y

Chronic Lymphocytic Leukemia (CLL)

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

Chronic Myelogenous Leukemia (CML)

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

CML in Blast Crisis

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

Multiple Myeloma (MM)

- 1p (CDKN2C)/1q (CKS1B)
- 17p13 (TP53)
- t(4;14) (FGFR3/IGH)
- t(11;14) (CCND1/IGH)
- t(14;16) (IGH/MAF)
- 13q14/13q34
- D5S23/D5S71/CEP9/CEP15
- IGH-Break Apart
- t(14;20) (IGH/MAFB)
- t(6;14) (CCND3/IGH)
- CEP7/CEP11

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

**if positive reflex to: CEP7/CEP11

Myelodysplastic Syndrome (MDS)

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

Myeloproliferative Neoplasms (MPN)

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

Non-Hodgkin's Lymphoma (NHL)

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

Solid Tumor

Brain Cancer

- 1p/19q deletion
- PTEN

Breast Cancer

- PathVysion® (HER2/neu)
- EGFR

Gastric Cancer

- HER2 Amplification

Lung Cancer

- ALK-Break Apart
- MET
- RET
- ROS1
- EGFR

IMMUNOASSAY

Luminex Multiplex Panels

Listing of custom and pre-built panels available upon request.

ELISA

• Denotes an FDA-cleared or FDA-approved test. These *in vitro* diagnostic test kits are provided by a third-party manufacturer. Additional details and indications for use can be provided upon request.

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