



NY State Approved Test Menu

Cytogenetics

Tests	
Constitutional Chromosome Analysis	POC Chromosome Analysis
Oncology Chromosome Analysis	Tissue Oncology Chromosome Analysis

Fluorescence In Situ Hybridization (FISH)

Tests		
<p>Acute Myelocytic Leukemia (AML) Panel</p> <ul style="list-style-type: none"> • 5q-, -5 (5p15.2, 5q33-34) • 7q-, -7 (7q31, Cen 7) • Trisomy 8 (Cen 8) • MLL (11q23) • RUNX1T1/RUNX1 (ETO/AML1) t(8;21) • PML/RARA t(15;17) • CBFB inv(16), t(16;16) <p><i>Probes may be ordered separately</i></p>	<p>Chromosome 15 Trisomy</p>	<p>FGFR1 (8p11)</p>
<p>ALK (2p23)</p>	<p>CLL FISH Panel</p> <ul style="list-style-type: none"> • 6q- [SEC63 (6q21), MYB (6q23)] • ATM (11q22.3) • p53 (17p13.1) • Trisomy 12 (Cen 12) • 13q-/-13 (13q14, 13q34) • CCND1/IgH t(11;14) <p><i>Probes may be ordered separately (except 12 and 13 are tested together, and ATM is tested with p53)</i></p>	<p>HER2 IQFISH pharmDx (breast)</p>
<p>AML Favorable Risk Panel</p> <ul style="list-style-type: none"> • RUNX1/RUNX1T1 (ETO/AML1) t(8;21) • PML/RARA t(15;17) • CBFB inv(16), t(16;16) <p><i>Probes may be ordered separately</i></p>	<p>Deletion 1p/1q Gain</p>	<p>HER-2 non-breast</p> <ul style="list-style-type: none"> • HER2 (17q11.2-q12) • 17 (Cen 17)
<p>BCL2 Rearrangement (18q21)</p>	<p>Deletion 5q/Monosomy 5</p>	<p>High-Grade/Large B-Cell Panel</p> <ul style="list-style-type: none"> • BCL6 (3q27) • MYC (8q24) • IgH/BCL2 t(14;18)
<p>BCL6 Rearrangement (3q27)</p>	<p>Deletion 6q</p>	<p>IgH (14q32)</p>
<p>BCR/ABL1/ASS [t(9;22)]</p>	<p>Deletion 7q/Monosomy 7</p>	<p>IGH Rearrangement (14q32)</p>
<p>CBFB/MYH11 translocation inv(16), t(16;16)</p>	<p>Deletion 11q (ATM)</p>	<p>IGH/BCL2 translocation t(14;18)</p>
<p>CCND1/IgH (11q13/14q32)</p>	<p>Deletion 13q14/Monosomy</p>	<p>IGH/CCND1 translocation t(11;14)</p>
<p>CCND1 Rearrangement (11q13)</p>	<p>Deletion 17p [TP53]</p>	<p>IGH/FGFR3 translocation t(4;14)</p>
<p>Chromosome 5 Trisomy</p>	<p>Deletion 20q</p>	<p>IGH/MAF translocation t(14;16)</p>
<p>Chromosome 8 Trisomy</p>	<p>EGFR/CEP7 (7p12)</p>	<p>IGH/MYC translocation t(8;14)</p>
<p>Chromosome 9 Trisomy</p>	<p>Eosinophilia Panel</p> <ul style="list-style-type: none"> • PDGFRa, CHIC2, FIP1L1 (4q12) • PDGFRb (5q33) • FGFR1 (8p11) • CBFB inv(16), t(16;16) <p><i>Probes may be ordered separately</i></p>	<p>Low-Grade/Small B-Cell Panel</p> <ul style="list-style-type: none"> • BCL6 (3q27) • CCND1/IgH t(11;14) • IgH/BCL2 t(14;18) • MALT1 (18q21) <p><i>Probes may be ordered separately</i></p>
<p>Chromosome 12 Trisomy</p>		<p>MALT1 Rearrangement (18q21)</p>

Fluorescence In Situ Hybridization (FISH) (Continued)

Tests

- MDS Standard FISH Panel
- 5q-, -5 (5p15, 5q31, 5q33)
 - 7q-, -7 (7q31, Cen 7)
 - Trisomy 8 (Cen 8)
 - MLL (11q23)
 - 20q- (20q12, 20qter)

Probes may be ordered separately except +8 and 20q- which are combined

MLL Rearrangement (11q23)

MPN Panel

- PDGFRa, CHIC2, FIP1L1 (4q12)
- PDGFRb (5q33)
- FGFR1 (8p11)
- BCR/ABL1 t(9;22) including ASS1 (9q34)

Probes may be ordered separately

Multiple Myeloma High Risk Panel

- FGFR3/IgH t(4;14)
- 13q-, -13 (13q14, 13q34)
- IgH/MAF t(14;16)
- p53 (17p-)

Probes may be ordered separately

Multiple Myeloma IgH Complex Panel

- FGFR3/IgH t(4;14)
- CCND1/IgH t(11;14)
- IgH/MAF t(14;16)

Probes for each translocation may be ordered separately

Multiple Myeloma MGUS Panel

- 1p-, 1q+, iso(1q): CDKN2C (1p32), CKS1B (1q21)
- +3, hyperdiploidy (Cen 3)
- +5, hyperdiploidy (5p15.2, 5q33-34)
- +9, hyperdiploidy (Cen 9)
- 13q- (13q14, 13q34)
- IgH (14q32), p53 (17p-)

Probes may be ordered separately except +3 and +9 which are combined

MYC Rearrangement (8q24)

NeoSITE™ Barrett's Esophagus Panel

- MYC (8q24)
- p16 (CDKN2A at 9p21)
- HER2 (ERBB2 at 17q12)
- ZNF217 (20q13)

Non-Hodgkin's Lymphoma (NHL) Panel

- ALK (2p23)
- BCL6 (3q27)
- MYC (8q24)
- CCND1/IgH t(11;14)
- IgH (14q32)
- IgH/BCL2 t(14;18)
- MALT1 (18q21)

Probes may be ordered separately

PML/RARA translocation t(15;17)

RARA Rearrangement (17q21)

ROS1 (6q22)

RUNX1/RUNX1T1 translocation t(8;21)

UroVysion FDA

Flow Cytometry

Tests

10-color flow

B & T Cell Panel (Leukemia/Lymphoma Immunophenotyping-10 Color Gallios)

Myeloid, B & T Cell Panel (Leukemia/Lymphoma Immunophenotyping-10 Color Gallios)

Paroxysmal Nocturnal Hemoglobinuria (PNH)

Plasma Cell Panel (Leukemia/Lymphoma Immunophenotyping-10 Color Gallios)

Immunohistochemistry (IHC)

Tests

AACT

AAT (Alpha 1 Antitrypsin)

ACTH (Adrenocorticotropin Hormone)

Actin MSA (Muscle Specific Actin)

Actin SMA (Smooth Muscle Actin)

Adenovirus

AFP (Alpha Feto Protein)

ALK1

ALK, D5F3 (FDA)

Alpha Synuclein

Amyloid A

Amyloid P

Annexin A1

AR (Androgen Receptor)

Arginase 1

B72.3

BCA225

BCL1/Cyclin D1

BCL2

BCL6

BerEP4

Beta Amyloid

Beta Catenin

BG8 (Blood Group Related Antigen)

BOB1

BRAF V600E

BRCA1

Breast Triple Stain (CK5+p63+CK8/18)

CA19.9

CA125

Calcitonin

Caldesmon

Calponin

Immunohistochemistry (IHC) (Continued)

Tests

Calretinin	CD75	DCC (Deleted in Colorectal Cancer Protein)
Carbonic Anhydrase IX (CAIX)	CD79a	Desmin
Cat Scratch	CD99	DNA Ploidy by Image
Cathepsin D	CD117 (cKIT)	DOG1
CD1a	CD123	DPC4 (SMAD4)
CD2	CD138	E Cadherin
CD3	CD163	EBV (LMP1)
CD4	CDX2	EGFR (Epidermal Growth Factor Receptor)
CD5	CDX2/CK7 Double Stain	EGFR [E746_A750del specific]
CD7	CDK4	EGFR [L858R mutant specific]
CD8	CEA Monoclonal	eIF4E
CD10	CEA Polyclonal	EMA (Epithelial Membrane Antigen)
CD11c	Chromagranin A	ER
CD14	CK AE1/AE3 (Pan Cytokeratin)	ER (Estrogen Receptor 6F11/1D5)
CD15	CK CAM 5.2 (CK LMW)	ERCC1
CD19	CK HMW (CK903/34βE12)	ERG
CD20	CK HMW/CK LMW Double Stain	Factor VIII
CD21	CK OSCAR (Pan Cytokeratin)	Factor XIIIa
CD22	CK5/6 (Cytokeratin 5/6)	Fascin
CD23	CK7 (Cytokeratin 7)	FLI1
CD25	CK10/13 (Cytokeratin 10/13)	FOX P1
CD30	CK14 (Cytokeratin 14)	FOX P3
CD31	CK17 (Cytokeratin 17)	FSH (Follicle Stimulating Hormone)
CD33	CK18 (Cytokeratin 18)	Galectin3
CD34	CK19 (Cytokeratin 19)	Gastrin
CD35	CK20 (Cytokeratin 20)	GATA3
CD38	Cleaved Caspase 3	GCDFP15 (Gross Cystic Disease Fluid Protein)
CD42b	cMET	GCET1
CD43	CMV (Cytomegalovirus)	Geminin
CD44	cMyc	GFAP (Glial Fibrillary Acidic Protein)
CD45 (LCA)	Collagen IV	GH (Growth Hormone)
CD45RB	Copper Stain	Glucagon
CD45RO	COX2 (Cyclooxygenase2)	GLUT1
CD56	cREL	Glycophorin A
CD57	CXCR4	Glypican 3
CD61	Cyclin E	Gram Stain
CD68	Cytomegalovirus by IHC	Granzyme B
CD71	D240	GST n (Glutathione S Transferase n)
CD74	DBA.44	

Immunohistochemistry (IHC) (Continued)

Tests

H. Pylori (Helicobacter Pylori)	Masson's Trichrome Stain (Trichrome Stain)	p53
HBME1	MDM2	p57
HCGβ (Human Chorionic Gonadotropin Beta)	MDR1 (Multi Drug Resistant Protein 1)	p501S (Prostein)
Hemoglobin A	Melan A (Mart1)	p504S (AMACR)
Hepatitis B Core Antigen	Mesothelin	p63
Hepatitis B Surface Antigen	MGMT	pAKT (Phosphorylated AKT)
HER2 (IHC)	MITF	Pan Melanoma + Ki67
HER2 (HercepTest™)	MLH1	Pan Melanoma (S100+Melan A+Tyrosinase)
HGAL	MOC31	Pancreatic Polypeptide
HHV8 (Human Herpesvirus, Type 8) (KSHV)	MPO (Myeloperoxidase)	Parathyroid Hormone
HLADR	MSH2	Parvovirus
HMB45	MSH6	PAX2
HPL (Human Placental Lactogen)	MUC1	PAX5
HPV (Human Papilloma Virus)	MUC2	PAX8
HSV 1 (Herpes Simplex 1 Antigen)	MUC5	PD1 (Programmed Death 1)
HSV 2 (Herpes Simplex 2 Antigen)	MUC6	PD-L1 22C3 FDA (KEYTRUDA®)
IDH1	Mucicarmine	PD-L1 28-8 FDA (OPDIVO®)
IgA (Immunoglobulin A)	MUM1	PD-L1 (Non-Lung, LDT)
IgD (Immunoglobulin D)	Myeloperoxidase (MPO) for Smear	PDGFR Alpha (Platelet Derived Growth Factor Receptor Alpha)
IgG (Immunoglobulin G)	MyoD1	PDGFR Beta (Platelet Derived Growth Factor Receptor Beta)
IgG (Immunoglobulin G4)	Myogenin	Perforin
IgM (Immunoglobulin M)	Myoglobin	PGP9.5
Inhibin	NAE w/NaF and NAE w/o NaF	PgR
Inhibition (NAE and NAE w/NaF) [Naphthol Acetate Esterase with Sodium Fluoride Inhibitor]	Napsin A	PHH3 (pHistone H3)
Insulin	NBE [Naphthol Butyrate Esterase]	PLAP (Placental Alkaline Phosphatase)
Kappa	(NB) Neuroblastoma	PMS2
Ki-67	NeuN	Pneumocystis Carinii (P. Jiroveci)
Ki67 (30-9)	(NF) Neurofilament	PR (Progesterone Receptor)
Ki67/Caspase 3 Double Stain	NKX2.2	Prealbumin (TTR)
Lambda	NKX3.1	Prolactin
Laminin	NSE (Neuron Specific Enolase)	Prostate Triple Stain (p63/CKHMW/P504S)
Langerin	OCT2	Prussian Blue Iron Stain
LEF1	OCT4	PSA (Prostate Specific Antigen)
LH (Luteinizing Hormone)	OLIG2	PSAP/HPAP (Prostate Acid Phosphatase)
LMO2	p120 Catenin	PSMA (Prostate Specific Membrane Antigen)
Lysozyme	p16	PTEN
Mammaglobin	p21	PU.1
	p27	
	p40	

Immunohistochemistry (IHC) (Continued)

Tests

Pulmotype (panel of 5 antibodies, including TRIM29)	Spirochete	TRAP (Tartrate Resistant Acid Phosphatase)
RB (Retinoblastoma)	Sudan Black B (SBB)	TRIM29
RCC1 (Renal Cell Carcinoma)	Surfactant	Tryptase
Reticulin-Nuclear Fast Red Stain	Survivin	TS (Thymidylate Synthase)
S100	SV40	TSH (Thyroid Stimulating Hormone)
S100P	Synaptophysin	TTF1 (Thyroid Transcription Factor 1)
SALL4	Tau	Tuberculosis
SATB2	TCL1 (T Cell Leukemia/Lymphoma Protein 1)	Tyrosinase
Serotonin	TCRβF1	Uroplakin II (Clone: BC21)
SF1	TdT (Terminal Deoxynucleotidyl Transferase)	Uroplakin III
SMMHC (Smooth Muscle Myosin, Heavy Chain)	TFE3	Varicella Zoster Virus
Smoothelin	TGF Alpha (Transforming Growth Factor Alpha)	VEGF (Vascular Endothelial Growth Factor)
Somatostatin	Thrombomodulin(TM)	Villin
Somatostatin (Receptor Type 2)	Thyroglobulin (TGB)	Vimentin
SOX2	TIA1	Von Karsa (Calcium) Stain
SOX10	TLE1	Warthin-Starry Stain
SOX11	Toxoplasma	WT1 (Wilms Tumor)
		ZAP70

In Situ Hybridization (ISH)

Tests

EBER	Kappa
HER2 Dual ISH	Lambda

Molecular

Tests

B-Cell Gene Rearrangement	EGFR cobas® (FDA)	KRAS theascreen® (FDA)
BCR-ABL1 [p210 + p190] Quantitative	EGFR Sequencing (Exons 18-21)	Microsatellite Instability (MSI)
BRAF Sequencing (Exon 15)	JAK2 Exons 12-14	T-Cell Gene Rearrangement (gamma)
BRAF V600E and V600K ThxID® (FDA)	JAK 2 V617F Mutation Analysis	
BRAF V600E cobas® (FDA)	KRAS Sequencing (Exons 2-3)	



12701 Commonwealth Dr., Suite 9
Fort Myers, FL 33913
Phone: 866.776.5907 / Fax: 239.690.4237
neogenomics.com

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