

Laboratory Client Services

Tel: (614) 722-5477 / (800) 934-6575

NationwideChildrens.org/Lab

Pediatric Oncology Genetic Test Requisition Form

Institute for Genomic Medicine (IGM) Clinical Laboratory Tel: (614) 722-2866 / Fax: (614) 722-2887

Ship Samples to: Nationwide Children's Laboratory Services 700 Children's Drive, Room C1955 Columbus, OH 43205 U.S.A.

PATIENT INFORMATIO	DN (Please Print or Pla	ice ID I	abel) First Name			MI
Date of Birth (DOB)	Sex	nale	SSN		Patient I	D #/ MRN
Street Address			City		State	Zip
ORDERING PHYSICIAI	NINFORMATION (Ple	ease Pr	int)			
Ordering Physician Nam	e (REQUIRED)	Phor	e (REQUIRED) Fax (REQU	JIRED)	NPI #
Attending Physician Informati	on - REQUIRED if Ordering	Physicia	an is a Trainee (e	e.g. Resident, Fello	ow)	
Attending Physician Name		Phone	9	Fax		NPI#
Institution / Practice / Facility	Name					
Street Address			City		State	Zip
Physician Email (REQUIRED	if sending from outside U	.S.A.)				
Physican Signature					Date	
ADDITIONAL REPORT Name Physician Lab DIAGNOSIS / ICD-10 / Diagnosis / ICD-10	TO (Please Print) ⊇ Other CLINICAL INFORMAT	ION	Phone		Fax	
Other Clinical Information / Sp	pecial Instructions					
SAMPLE INFORMATIC	N (List each sample s		ed with this for	rm) - REQUIRE	D	
Type:		relaps	e, day 28, etc)	Collection Date.	🗆 This is	s a banked COG sample
□ Tumor sample with _ □ Normal sample	% tumor/blasts				COG #: _	
SAMPLE 2	ted for testing if necessary	Time	Point (diagnosis	Collection Date:		
Type:	0/ 1/	relaps	e, day 28, etc)		🗌 This is	s a banked COG sample
□ Tumor sample with _ □ Normal sample □ This sample may be deplet	% tumor/blasts				COG #: _	
SAMPLE 3		Time	Point (diagnosis,	Collection Date:		
Type:	% tumor/blasts	relapso	e, day 28, etc)		🗌 This is	s a banked COG sample
□ Normal sample					COG #: _	
	Red for testing if necessary	quirod	for oach subm	itted tumor con	nlo - att	ach a proliminary
report if final report is no	ot available. <i>Failure can</i>	result	in a delayed te	est processing a	and/or res	sult reporting.
To request a return of Ship Back to: Name:	submitted tissue bloc	cks/un	used samples	s/slides, comp Phone:	olete all f	ields below:
Address:						
FedEx Accou	nt # to use for bill for ship	ping (RE	EQUIRED):			



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BILLING INFORMATION

Patient Name (or place patient ID label)

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- Insurance bill option is only available for patients/insurance plans <u>within</u> the state of Ohio. For insurance bill, please attach the front and back copy of the patient's insurance card and complete the "Ohio Insurance Bill" section below
- For out-of-Ohio patients/insurance plans, we only accept institutional bill. We <u>DO NOT</u> insurance bill for patients/insurance plans outside of Ohio
- For INTERNATIONAL samples referred from outside the U.S.A. or Canada, we only accept institutional bill. Pre-payment or agreement of payment must be made PRIOR TO sending the sample. Payment can be made by wire transfer or by credit card. To arrange payment, please email LaboratoryBilling@NationwideChildrens.org
- We DO NOT offer Self-pay option at this time
- Please contact Laboratory Client Services for more information at 1-800-934-6575

■ INSTITUTIONAL BILL (Please Print) – REQUIRED for Out-of-State and International Samples					
Contact Name:		Phone		Fax	
Emoil Address (REOLURED if conding fro					
Institution / Hospital / Laboratory Name					
Street Address					
City	State		Zip Code	Cou	ntry
Send a result copy to sending	institution via:				
Above Fax number Above	e Email address	□ Other Fa	x/Email		
Other information:					
Please Attach a Front and Back	se Print) – Optior Copy of Insuran	n Only for (ce Card	Ohio Patients/Insura	ance Plans	
Legal Guardian Last Name	Legal	Guardian Fir	st Name, MI	Legal G	Guardian DOB
	Dalati		·		
Legal Guardian SSN		Self \Box S	pouse	□ Other_	
Subscriber Last Name	Subsc	Subscriber First Name, MI			ber DOB
Subscriber SSN	Emplo	oyer			
	Daliau	щ.		Crown	u
insurance Co. Name	Policy	#		Group 4	+
Insurance Address		City		State	Zip
Secondary Insurance Co. Nome					
Secondary insurance Co. Name					
PATIENT CONSENT FOR INSUR	ANCE BILL				
		0	· P – U		
billing and appeals. I understand that I ar	s Hospital Laboratory n responsible for the	payment of t	providing all necessary his test whether through	n my insuran	ce company or myself.
	•				
Patient Signature: X					

		Patient Name (or place patient ID label)
	Children's	Last. First
When your child needs a hosp	ital, everything matters. [™]	DOB or MRN
Laboratory Client Services	doChildrone org/Lab	
101. (800) 934-05757 <u>Nationwi</u>	uechildrens.org/Lab	
CUTE LYMPHOBLASTIC L	EUKEMIA (ALL) TESTII	NG
-ALL Fusion Detection Tes	ts	
□ Targeted B-ALL Fusion This test detects gene fusions <i>EPOR, FGFR1, FLT3, JAK2,</i> <i>IGH-CRLF2</i> gene fusion. <i>De</i>	Analysis (ALLFUSN) s that have the following gene NTRK3, PDGFRA, PDGFRB, tected fusion partners are con	s as the 3' kinase fusion partner: <i>ABL1, ABL2, BLNK, CSF1R,</i> <i>PTK2B</i> and <i>TYK2</i> . This test will also detect some, but not all, firmed by singleplex <i>RT-PCR</i> with Sanger sequencing.
□ Single Kinase Fusion D This test detects a specific s	etection by Singleplex single gene fusion.	RT-PCR (KINFS)
Specify gene fusion — ((Gene #1 (5' Fusion Partne Gene #2 (3' Fusion Partne	er): r):
<u>At least 10% blasts</u> must be present	t in the submitted sample (bas	ed on internal pathology review)
Liquid Tumor Type: 🛛 Ban	ked COG sample (provide	COG # on page 1)
□ Bon □ Invo	e marrow (4mL EDTA)' Ived peripheral blood (4mL	EDTA) [†]
[*] Bone marrow and Blood samples: (containing 2 mL of COG ALL shipping overnight at room temperature. Must a	Collect 4 mL of bone marrow or in media. If COG ALL shipping me arrive the lab within 48 hours from	volved peripheral blood into EDTA tube. Transfer sample into conical via dia is unavailable please send in tissue culture or transport media. Ship collection.
IL7R Targeted Sequencin <u>At least 50% blasts</u> must be presel sample (containing 0% tumor) is <u>re</u>	Ig (IL7R) In tin the submitted tumor sam commended but not required.	ple (based on internal pathology review). Submission of a norma
1) Liquid Tumor Type:	 □ Banked COG sample (□ Bone marrow (4 mL EL □ Involved peripheral blo 	provide COG # on page 1) DTA) od (4 mL EDTA)
2) Normal Sample Type:	□ Banked COG (provide	COG # on page 1)

Please note: this test does NOT include the JAK2 V617F mutation commonly seen in myeloproliferative disorders.

*At least 50% blasts must be present in the submitted tumor sample (based on internal pathology review). Submission of a normal sample (containing 0% blast) is recommended but not required.

1)	Liquid Tumor Type:	 Banked COG sample Bone marrow (4 mL EDTA) Involved peripheral blood (4 mL EDTA)
2)	Normal Sample Type:	 Banked COG sample Uninvolved peripheral blood (4 mL EDTA) Other (specify):



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FPE = Formalin-fixed Paraffin-embedded ; Tissue scrolls <i>MUST</i> be accompanied by H&E slide from a consecutive cut
GLIOMA TESTING
BRAF V600 Mutation Analysis (BRAFV600) * <u>At least 40% tumor</u> must be present in the submitted tumor sample (based on internal pathology review).
Tumor Tissue Type: □ Snap-frozen (preferred) □ Fresh □ FFPE tissue block □ FFPE tissue scrolls AND H&E slide
OCT-embedded tissue block
NOTE: Our lab does not offer <u>BRAF-KIAA1549</u> fusion detection test unless the patient had previous positive result from another research/clinical lab. We only offer confirmatory testing, done under "RT-PCR Fusion Confirmation" test.
MEDULLOBLASTOMA TESTING
 CTNNB1 (Beta-Catenin) Exon 3 Sequencing (CTNE3) *<u>At least 40% tumor</u> must be present in the submitted tumor sample (based on internal pathology review). Submission of a normal sample (containing 0% tumor) is recommended but not required. 1) Tumor Tissue Type:
 □ Snap-frozen (preferred) □ Fresh □ FFPE tissue block □ FFPE tissue scrolls <u>AND</u> H&E slide □ OCT-embedded tissue block
 2) Normal Sample Type: Banked COG sample (provide COG # on page 1) Uninvolved peripheral blood (4 mL EDTA) Other (specify):
□ MYCN (N-MYC) and MYC (C-MYC) Amplification by FISH (FISHTUMOR)
Tumor Tissue Type: Banked COG sample (provide COG # on page 1) Snap-frozen Fresh FFPE tissue block (undecalcified) FFPE unstained slides (6 slides, 3 micron, undecalcified) OCT-embedded tissue block Involved bone marrow (4 mL EDTA)
SOFT TISSUE SARCOMA TESTING
Soft Tissue Sarcoma Tumor Analysis by RT-PCR (RTPCR) *Fusion partners are confirmed by DNA sequence analysis of the RT-PCR product
Full Panel (includes all listed below)
or Specific RT- PCR for the following <u>selected</u> sarcoma types:
 Ewing sarcoma EWS-FLI-1 and EWS-ERG fusions [t(11;22)(q24;q12) and t(21;22)(q22;q12)] Alveolar rhabdomyosarcoma PAX3-FOXO1 and PAX7-FOXO1 fusions [t(2;13)(q35;q14) and t(1;13)(p36;q14)] Synovial sarcoma SYT-SSX1/SSX2 fusion [t(X;18)(p11.2;q11.2)] Desmoplastic small round cell tumor EWS-WT1 fusion [t(11;22)(p13;q12)] Congenital fibrosarcoma/cellular mesoblastic nephroma ETV6-NTRK3 fusion [t(12;15)(p13;q25)]
Tumor Tissue Type: Snap-frozen (preferred) Fresh FFPE tissues are NOT ACCEPTED for this test



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FFP	E = Fo	ormalin-fixed Para	ffin-embedd	ed; Tissue scrolls MUST be	accompanie	ed by H&E slide from a consec	cutive cut
NE	URC	OBLASTOMA	TESTING				
	Tarç *Bot * <u>At la</u> 1)	geted Oncolog th tumor sample <u>east 40% tumor</u> m Tumor Tissue T	gy Microal e <u>AND</u> norr ust be prese Type: B S S F C C C C	rray Analysis (TONCMA) mal sample (containing ant in the submitted tumor sate anked COG sample (prov nap-frozen (preferred) FPE tissue block OCT-embedded tissue block	— LOH an 0% tumor) mple (basec vide COG ‡ ck	nd Copy Number Abnormal are <u>REQUIRED</u>. d on internal pathology review) t on page 1) Fresh FFPE tissue scrolls <u>AN</u> Involved bone marrow	ity Detection <u>MD</u> H&E slide (4 mL EDTA)
	2)	Normal Sample	e Type: □ B □ U □ S □ F □ C	anked COG sample (prov Ininvolved peripheral bloo Inap-frozen FPE tissue block ICT-embedded tissue bloo	ride COG ‡ d (preferre ck	[‡] on page 1) d; 4 mL EDTA) □ Fresh □ FFPE tissue scrolls <u>AM</u> □ Other (specify):	<u>ND</u> H&E slide
	MY(Tum	CN (N-MYC) A i lor Tissue Type:	mplificatio	on by FISH (FISHTUMOR COG sample (provide Co ozen ssue block (undecalcified) nbedded tissue block) ⊃G # on pa □ Fresh) □ FFPE (□ Involve	age 1) unstained slides (6 slides, 3 ed bone marrow (4 mL EDT	3 micron, undecalcified) ʿA)
Π,	ALP * <u>At lea</u> samp 1)	C Amplification <u>ast 40% tumor</u> mu ple (containing 0% Tumor Tissue T	h by FISH st be present tumor) is <u>re</u> ype:	(FISHALK) & ALK Targe t in the submitted tumor sam <u>commended</u> but not required Banked COG sample (pro Snap-frozen (preferred) FFPE tissue block (undec Involved bone marrow (4)	eted Sequ pple (based of d. ovide COG alcified) mL EDTA)	Jencing (ALK) on internal pathology review). # on page 1) □ Fresh □ OCT-embedded tissue	Submission of a normal
	2)	Normal Sample	Type:	Banked COG sample (pro Uninvolved peripheral blo Snap-frozen (preferred) FFPE tissue block (undec Other (specify):	ovide COG od (preferro alcified)	# on page 1) ed; 4 mL EDTA) □ Fresh □ OCT-embedded tissue) block
	DN Tun	A Ploidy Analy nor Tissue Type:	rsis (DNAP) : : Banka : Snap : FFPE : OCT-	ed COG sample (provide -frozen Etissue block embedded tissue block	COG # on □ Fre □ FFF □ Invo	page 1) sh PE tissue scrolls olved bone marrow (4 mL E	EDTA)



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WILMS TUMOR TESTING	WILMS TUMOR TESTING				
Targeted Oncology Microarray Analysis (TONCMA) — LOH and Copy Number Abnormality Detection *Both tumor sample <u>AND</u> normal sample (containing 0% tumor) are <u>REQUIRED</u> . * <u>At least 40% tumor</u> must be present in the submitted tumor sample (based on internal pathology review)					
1) Tumor Tissue Type: 1) Tumor Tissue Type: 1 1 1 1 1 1 1 1 1 1 1 1 1] Banked COG sample (provide COG #] Snap-frozen (preferred)] FFPE tissue block] OCT-embedded tissue block	^t on page 1) □ Fresh □ FFPE tissue scrolls <u>AND</u> H&E slide			
2) Normal Sample Type:	 Banked COG sample (provide COG # Uninvolved peripheral blood (preferred Snap-frozen FFPE tissue block OCT-embedded tissue block 	^t on page 1) d; 4 mL EDTA) □ Fresh □ FFPE tissue scrolls <u>AND</u> H&E slide □ Other (specify):			



CAUTION for Following Tests:

Following tests are only available as <u>CONFIRMATORY TESTS</u> and only offered to patients who have a known gene fusion or somatic sequence variant(s) detected by previous research/clinical testing. If patient does not have a previously detected gene fusion or somatic variant(s), then below tests cannot be ordered and samples will be rejected.

TARGETED TUMOR FUSION ANALYSIS - Confirmatory Test for a Known Gene Fusion

□ **RT-PCR Fusion Confirmation** (FUSNCON)

A copy of the previous research/clinical tumor fusion result is **REQUIRED**. <u>At least 10% tumor</u> must be present in the submitted liquid/solid tumor sample (based on internal pathology review)

Test for fusion between these 2 genes: Gene #1 (5' Fusion Partner):

Gene #2 (3' Fusion Partner):_____

Test for additional gene fusions (specificy):_____

Previous tumor fusion analysis performed at (Lab Name): ____

Liquid Tumor: specify tumor diagnosis: _____

Sample Type:
Bone marrow (4 mL EDTA): Blast %:
Involved peripheral blood (4 mL EDTA): Blast %:

□ Involved peripheral blood (4 InL EDTA). Blast %._____

Solid Tumor: specify tumor diagnosis: ____

Sample Type: Snap-frozen (preferred)

☐ Fresh

□ OCT-embedded tissue block

Other (specify):

* FFPE tissues are **NOT ACCEPTED** for this test



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Please Read CAUTION on Previous Page for Following Test

FFPE = Formalin-fixed Paraffin-er	nbedded; Tissue scrolls MUST be acco	ompanied by H&E slide from a consecutive cut
TARGETED TUMOR VAR	ANT ANALYSIS - Confirmatory	/ Test for a Known Somatic Variant
Targeted Tumor Varia A copy of the previous resea	nt Analysis (TTVA) rch/clinical tumor sequencing result is	REQUIRED.
1. Gene Name:	Mutation/Variant:	
2. Gene Name:	Mutation/Variant:	
3. Gene Name:	Mutation/Variant:	
Previous tumor sequencing Previous tumor sequencing *Submission of tumor sam	g performed at g performed as a □ <i>Clinical test</i> ple is <u>REQUIRED;</u> Submission of a r	ing □ <i>Research testing</i> normal sample (containing 0% tumor) is <u>recommended</u>
Liquid Tumor: speci <i>Must contain<u>at least 5</u> Sample Type:</i>	y tumor diagnosis : <u>2% blasts</u> (based on internal pathology Bone marrow (4 mL EDTA): Involved peripheral blood (4 r	neview) Blast %: nL EDTA): Blast %:
Solid Tumor: specify	y tumor diagnosis:	
Must contain at least 4	<u>0% tumor</u> (based on internal pathology	review)
Tissue Type:	🗆 Snap-frozen (preferred)	□ Fresh
	 FFPE tissue block OCT-embedded tissue block 	□ FFPE tissue scrolls <u>AND</u> H&E slide
□ Normal Sample Type	e: Peripheral blood (preferred; Other:	4 mL EDTA)

Please Ship Samples and Completed Test Requisition Form to:

Nationwide Children's Hospital Laboratory 700 Children's Drive, Room C1961 Columbus, OH 43205 U.S.A.

Ship samples via Overnight Courier. Samples must arrive in the laboratory within 48 hours. Saturday deliveries accepted. Please check "Saturday Delivery" on shipment label.

For testing requested on banked COG samples, please FAX the completed Test Requisition Form to FAX number (614) 722-2887.

For questions regarding testing, specimen requirements or transport, please call IGM Clinical Laboratory at (614) 722-2866 or Lab Client Services at (800) 934-6575.



Institute for Genomic Medicine (IGM) Clinical Laboratory

700 Children's Drive, Columbus, OH 43205 Phone: (614) 722-2866 / Fax: (614) 722-2887

Informed Consent for Genetic Testing

Patient Name	Date of Birth
Testing to be Performed	

Purpose of Testing

I understand that blood/tumor/bone marrow samples from me/my child will be tested to determine the presence or absence of certain genetic characteristics associated with a particular genetic disorder or diagnosis (germline), or associated with my/my child's cancer. It is the responsibility of the referring physician to ensure that I understand the implications of this testing. I understand that participation in this testing is voluntary.

Accuracy of Testing

I understand that the accuracy of the testing is limited to the techniques used. I understand that, as with all complex testing, there is always a chance of error or test failure. It is the responsibility of the referring physician to explain the limitations of the testing.

Germline (Constitutional) Testing

The tests that will be performed on the samples aims to identify genetic features I (my child) was born with and are present in all of my (child's) cells. I understand that the accuracy of the testing is influenced by the information that I provide regarding myself (my child), the medical history of family members, and biological relationships in my family. Testing may also reveal that my (child's) parents are related by blood. In addition, non-paternity may be detected in some family-based studies, and this result may be reported to the referring health care provider.

Cancer (Tumor) Testing

The primary aim of testing is to identify genetic changes in the cancer cells. The tests that will be performed on the samples can, in rare cases, identify genetic changes I (my child) was born with and are present in all of my (child's) cells (not just the cancer cells). This could include a genetic disorder caused by gene mutation, gain or loss of DNA, or determination that my (child's) parents are related by blood. If changes in the non-cancer cells are found that are thought by the testing laboratory to have significant clinical importance, the results may be communicated to the referring physician for consideration of follow-up testing.

Reporting of Results

I understand that the results of this testing will be reported only to the referring healthcare provider, or to a designated professional. All results are confidential and will be reported to other individuals only with my written consent, unless otherwise required by law.

Disposition of Samples

I understand that a portion (an aliquot) of my (child's) sample will be kept with identifiers intact, and it may be available for additional testing as ordered by my healthcare provider. I will not consider this as a banking procedure, and the laboratory will not be responsible for ensuring that the sample is available in the future. The remainder of the sample can be used for research-based testing with the option that I have checked below. I give the following permission regarding research use of the unused portion of my (child's) sample **(please choose ONE)**: [Please note: if neither option is marked, the first option will apply and consent to research will be implied.]

Can be used for research purposes including studies designed to investigate the cause of my (child's) condition without removing the identifying information on the sample. Results, at the discretion of the laboratory, may be communicated through the referring physician.

- Can be used for research purposes only after the identifying information is removed from the sample. I understand that I will not be given any results from the testing, because the sample will be anonymous.
- **Cannot be used for research purposes.**

Signature of Signature of Patient/Parent/Guardian: Signature of Patient/Parent/Guardian: I consent to participate (or have my child participate) in genetic testing for the above mentioned scenario. The testing has been explained to me, including its limitations and implications, and I have been given the opportunity to ask questions which have been answered in a satisfactory manner.

Date/Time

Signature of Ordering Clinician: I have explained the testing, limitations, consent, and implications to the patient/parent and accept responsibility for ensuring genetic counseling is provided.

Date/Time_

A signed copy should be provided to the Patient/Parent/Guardian.

	Informed Concerns for Constin Testing	0/07. 40/4F
LA-90	Informed Consent for Genetic Testing	2/07;12/15