

Patient ID SA00149006	Patient Name TESTINGRNV, COGBF-ABNORMAL	Birth Date 2019-10-16	Gender M	Age 23 M
Order Number SA00149006	Client Order Number SA00149006	Ordering Physician CLIENT,CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 14 Oct 2021 06:53		

COG, ALL (B-cell), FISH

Result Summary

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Abnormal

Interpretation

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The result is abnormal and indicates 90% of nuclei had ETV6/RUNX1 fusion. These results should be correlated with a conventional chromosome study.

ETV6/RUNX1 fusion is associated with a favorable prognosis in B-lymphoblastic leukemia/lymphoma (B-ALL) (Iacobucci et al., J Clin Oncol 35:975–983, 2017; Roberts et al., Nat Rev Clin Onc 12:344–357, 2015).

Clinical and pathologic correlation is recommended.

For monitoring response to therapy, FISH for ETV6/RUNX1 fusion is available, test BALMF [ALL (B-cell), Specified FISH].

Result Table

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Abnormality Name	Result	Abn%	Cutoff%
t(12;21) ETV6/RUNX1 fusion	Abnormal	90	<4.0
11q23(MLL sep)	Normal		<10.0
t(9;22) ABL1/BCR fusion	Normal		<4.0
-9p21(CDKN2Ax1,D9Z1x2)	Normal		<12.0
-9p21x2(CDKN2Ax0,D9Z1x2)	Normal		<5.0
-17p13.1(TP53x1,D17Z1x2)	Normal		<15.0
-17(TP53,D17Z1)x1	Normal		<10.0
+21q22(RUNX1x3)	Normal		<7.0
14q32(IGH sep)	Normal		<15.0
Xp22.33/Yp11.32(3'CRLF2retentio n,5'loss)	Normal		<10.0
Xp22.33/Yp11.32(3'P2RY8loss,5'r etention)	Normal		<5.0
t(1;19) PBX1/TCF3 fusion	Normal		<4.0
der(19)t(1;19) PBX1/TCF3 fusion	Normal		<4.0
+4CEN(D4Z1x3)	Normal		<20.0
+10CEN(D10Z1x3)	Normal		<7.0
+17CEN(D17Z1x3)	Normal		<7.0
8q24.1(MYC sep)	Normal		<10.0

Result

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nuc ish(ETV6,RUNX1)x3(ETV6 con RUNX1)x2[180/200]

Reason for Referral

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B-acute lymphoblastic leukemia/B-ALL, B-ALL, COG AALL1732

Specimen

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Bone Marrow

Source

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Left posterior iliac crest

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292

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Method
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Locus and probes	[Strategy;#Nuclei;Class]
1q23(PBX1), 19p13.3(TCF3)	[DFISH;200;LDT]
4CEN(D4Z1), 10CEN(D10Z1), 17CEN(D17Z1)	[COPY#;100;AM]
8q24(5'MYC,3'MYC)	[BAP;100;AM]
9p21(CDKN2A), 9CEN(D9Z1)	[COPY#;100;AM]
9q34(ABL1), 22q11.2(BCR)	[DFISH;200;AM]
11q23(5'MLL[KMT2A],3'MLL[KMT2A])	[BAP;100;AM]
12p13(ETV6), 21q22(RUNX1)	[DFISH;200;LDT]
14q32(3'IGH,5'IGH)	[BAP;100;LDT]
17p13(TP53), 17CEN(D17Z1)	[COPY#;100;AM]
Xp22.33/Yp11.32(3'CRLF2,5'CRLF2)	[BAP;100;C]
Xp22.33/Yp11.32(3'P2RY8,5'P2RY8)	[BAP;100;C]

Probe strategies include:
 DFISH=dual color, double fusion;
 BAP=break-apart probe;
 COPY#=region gain and loss.

Scoring Method: Manual

Probe vendors include:
 LDT = Mayo Clinic Developed
 AM = Abbott Molecular, Inc (Des Plaines, IL)
 C = Cytocell, Inc. (Cambridge, UK)

Disclaimer
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Applicable to Analyte Specific Reagent (ASR) and Laboratory Developed Tests (LDT). This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. It has not been cleared or approved by the U.S. Food and Drug Administration. This FISH test does not rule out other chromosome abnormalities.

Released By
MCR

Jess F. Peterson, M.D.

Received: 15 Oct 2021 07:40
Reported: 25 Oct 2021 10:38
Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292