

Patient ID SA00150504	Patient Name TESTINGRNV, TLBLF-ABNORMAL	Birth Date 2006-03-18	Gender M	Age 15
Order Number SA00150504	Client Order Number SA00150504	Ordering Physician CLIENT,CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 01 Feb 2022 11:45		

T-Lymphoblastic Leuk/Lymph, FISH,Ts

Result Summary

MCR

Abnormal

Interpretation

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The result is abnormal and indicates approximately 80% of nuclei had a TAL1/STIL rearrangement (at 1p33) and a TRB rearrangement (at 7q34). This combination of abnormalities usually represents a 1;7 translocation. At diagnosis, rearrangements of the TAL1 gene region, which typically results in upregulation of TAL1, reportedly have an intermediate to favorable prognosis in pediatric patients with T-lymphoblastic leukemia/lymphoma (T-ALL) (Graux C, et al., Leukemia 20:1496–1510, 2006; van Grotel et al., Haematologica 91:1212–1221, 2006).

Result Table

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Abnormality Name	Result	Abn%	Cutoff%
1p33(TAL1/STIL sep)	Abnormal	80	<7.0
7q34(TRB sep)	Abnormal	80	<16.0
-9p21(CDKN2Ax1,D9Z1x2)	Normal		<17.0
-9p21x2(CDKN2Ax0,D9Z1x2)	Normal		<7.0
t(9;22) ABL1/BCR fusion	Normal		<3.0
amp9q34(ABL1x5+,BCRx2)	Normal		<5.0
11q23(MLL sep)	Normal		<3.0
-17p13.1(TP53x1,D17Z1x2)	Normal		<21.0
-17(TP53,D17Z1)x1	Normal		<24.0
t(5;14) TLX3/BCL11B fusion	Normal		<3.0
14q11.2(TRAD sep)	Normal		<25.0
t(10;11) MLLT10/PICALM fusion	Normal		<3.0

Result

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nuc ish(TAL1,STIL)x2(TAL1 sep STILx1)[80/100],(TRBx2)(5'TRB sep 3'TRBx1)[80/100]

Reason for Referral

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T-cell lymphoma

Specimen

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Tissue, Paraffin, Formalin

Source

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mediastinal mass

Tissue ID

MCR

BR-12345

Method

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Locus and probes	[Strategy;#Nuclei;Class]
1p33(TAL1,STIL)	[BAP;100;LDT]
5q35(TLX3), 14q32(BCL11B)	[DFISH;100;LDT]
7q34(5'TRB,3'TRB)	[BAP;100;LDT]
9p21(CDKN2A), 9CEN(D9Z1)	[COPY#;100;ASR]
9q34(ABL1), 22q11.2(BCR)	[DFISH;100;ASR]
10p12(MLLT10), 11q14(PICALM)	[DFISH;100;LDT]
11q23(5'MLL[KMT2A],3'MLL[KMT2A])	[BAP;100;ASR]
14q11.2(5'TRAD,3'TRAD)	[BAP;100;LDT]
17p13(TP53), 17CEN(D17Z1)	[COPY#;100;ASR]

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

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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Disclaimer

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Applicable to Analyte Specific Reagent (ASR) and Laboratory Developed Tests (LDT). This test was developed using an analyte specific reagent. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test 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

Patricia T. Greipp, D.O.

Received: 02 Feb 2022 11:48

Reported: 02 Mar 2022 10:50

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