MAYO CLINIC
Mayo Medical Laboratories

LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME	PATIENT NUMBER	AGE	SEX	ACCESSION #
TESTING, F512	L3MRNG9164336	72	M	G9164336

ORDERING PHYSICIAN	CLIENT ORDER #	ACCOUNT #
		LIAISONS

COLLECTION DATE TIME	RECEIVED DATE TIME	REPORT PRINTED DATE TIME	SPECIMEN INFORMATION
02/09/11 08:58 A	02/09/11 08:58 A	03/09/11 08:25 A	DATE OF BIRTH: 12/12/1938

Test Client
Attn: Mayo Liaisons
200 First Street SW
Rochester, MN 55905
507-284-8202

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *

PDGFRB/TEL, FISH — **REPORTED: 02/09/11 09:03 A**

Specimen	**Blood**	**MCR**
Specimen ID	**1053460**	**MCR**
Order Date	**09 Feb 2011 08:58**	**MCR**
Reason For Referral	**anemia**	**MCR**

Method — **MCR**

FISH for PDGFRB/TEL fusion with locus specific probes for 5q33 (PDGFRB) and 12p13 (TEL).

Result — **MCR**

nuc ish(PDGFRBx3),(TELx2),(PDGFRB con TELx1)[249/500]/(PDGFRBx3,TELx2)[175/500]
Of 500 nuclei, 49.8% had fusion of PDGFRB and TEL. The normal cutoff is <1.4% for 2 PDGFRB, 1 TEL and 1 PDGFRB/TEL fusion signals. In addition, 35.0% of nuclei had three PDGFRB signals. The normal cutoff is <1.8% for 3 PDGFRB and 2 TEL signals.

Interpretation — **MCR**

The result is abnormal and indicates PDGFRB/TEL fusion in 49.8% of nuclei. In addition, 3 PDGFRB signals were observed in 35.0% of nuclei which could indicate trisomy 5 or a structural abnormality involving 5q. PDGFRB/TEL fusion usually indicates a t(5;12) and is associated with a chronic myeloproliferative disorder or AML. Patients with PDGFRB/TEL fusion reportedly respond to targeted therapy, such as imatinib mesylate. Pardanani et al., Blood. 104(7):1931-1939, 2004.
For monitoring response to therapy in this patient, we suggest using FISH for PDGFRB/TEL fusion.
DISCLAIMER: This test was developed and its performance characteristics determined by Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN. It has not been

** Perform Site Legend on last page of report*

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cleared or approved by the U.S. Food and Drug Administration. This FISH test does not rule out other chromosome abnormalities.

Reviewed By: Heather Lynn Owen MCR
Release Date 09 Feb 2011 09:00 MCR

*** PERFORMING SITE**

MCR	Mayo Clinic Dpt of Lab Med & Pathology 200 First Street SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.

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