MAYO CLINIC LABORATORIES

1-800-533-1710

CHRHB

Chromosome Analysis, Hematologic Disorders, Blood

Patient ID	Patient Name		Birth Date	Gender	Age
SA00150266	TESTINGRNV, CHRHB-ABNORMAL		1987-10-18	M	34
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00150266	SA00150266	CLIENT,CLIENT			
Account Information		**Collected**			
C7028846 DLMP Rochester		23 Jan 2022 10:13			

Chromosomes, Hematologic, Blood

Result Summary

MCR

Abnormal

Interpretation

MCR

The result is abnormal. Each metaphase had a 5q deletion and 13 metaphases had trisomy 8.

A 5q deletion is a common chromosome abnormality in both de novo and therapy-related myeloid malignancies, particularly MDS and AML. TP53 mutation status by sequencing should be considered as TP53 mutations are present in a significant subset of MDS cases with an isolated 5q deletion and are associated with increased risk of leukemic transformation and shorter survival (Swerdlow et al., WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues. IARC Press:Lyon 2017; page 116; NCCN Guidelines Version 1.2018, AML;NCCN Guidelines Version 1.2019, MDS).

Clinical and pathologic correlation is recommended.

Result

MCR

46,XY,del(5)(q13q33)[7]/47,idem,+8[13]

Reason for Referral

MCR

acute myeloid leukemia/AML

Specimen

MCR

Blood

Method

MCR

Culture without mitogens

Banding Method

MCR

Band Resolution: 400
-549

Stain Name	Cells Analyzed	Cells Counted	Karyograms Prepared
GTL	20	0	3
TOTAL	20	0	3

Key to Stain Name: GTL=G-banding; QFQ=Q-banding; DAPI=DAPI-staining; CBL=C-banding; AGNOR=Silver-staining; NON=Non-banded

The sum of Cells Analyzed and Cells Counted equals the total cells examined.

Additional Information

MCR

Previous Studies

DATE	SPECIMEN	RESULT
05/13/2020	Marrow	No clonal abnormality was apparent

Released By

MCR

Patricia T. Greipp, D.O.

Received: 24 Jan 2022 10:42 **Reported:** 04 Feb 2022 08:24

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