

Patient ID C7028846-0006396	Patient Name TESTING, EOSFD-ABNORMAL	Birth Date 1991-05-15	Sex F	Age 33
Order Number X100498308	Client Order Number X100498308	Ordering Physician unknown	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 07 May 2025 08:05		

Chronic Eosinophilia pnl, Diag FISH

Result Summary

MCR

Abnormal

Interpretation

MCR

The result is abnormal and indicates a CHIC2 deletion with associated FIP1L1::PDGFRA fusion in 70% of nuclei. This 'cryptic' abnormality is typically associated with myeloid/lymphoid neoplasms with eosinophilia and may be responsive to targeted therapy (Swerdlow et al., WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues, IARC Press:Lyon, 2017).

Clinical and pathologic correlation is recommended.

For monitoring response to therapy, FISH for CHIC2 deletion is available, test EOSMF [Chronic Eosinophilia, Spec FISH].

Result Table

MCR

Abnormality Name	Result	Abn%	Cutoff%
4q12(CHIC2 deletion)	Abnormal	70	<7.0
5q32(PDGFRB sep)	Normal		<15.0
9p24.1(JAK2 sep)	Normal		<10.0
9q34(ABL1 sep)	Normal		<15.0
13q12.2(FLT3 sep)	Normal		<15.0
8p11.2(FGFR1 sep)	Normal		<10.0

Result

MCR

nuc ish (FIP1L1x2,CHIC2x1,PDGFRAx2)(FIP1L1 con PDGFRA)x1[70/100]

Reason for Referral

MCR

eosinophilia

Specimen

MCR

Bone Marrow

Source

MCR

Left iliac crest

Method

MCR

Locus and probes	[Strategy;#Nuclei;Vendor]
4q12(FIP1L1,CHIC2,PDGFRA)	[BAP;100;AM]
5q32(3'PDGFRB,5'PDGFRB)	[BAP;100;LDT]
8p11.2(3'FGFR1,5'FGFR1)	[BAP;100;LDT]
9p24(5'JAK2,3'JAK2)	[BAP;100;LDT]
9q34(5'ABL1,3'ABL1)	[BAP;100;LDT]
13q12.2(3'FLT3,5'FLT3)	[BAP;100;AT]

Probe strategies include:
BAP=break-apart probe.
Scoring Method: Manual

Probe vendors include:
LDT = Mayo Clinic Developed
AM = Abbott Molecular, Inc (Des Plaines, IL)
AT = Agilent Technologies (Santa Clara, CA)

Disclaimer

MCR

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

Xinjie Xu, Ph.D.

Received: 13 May 2025 10:51

Reported: 21 May 2025 14:17

Performing Site Legend

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