

Client
Gurugram
Pathkind Diagnostics Pvt. Ltd.
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

Processed By
Pathkind Diagnostics Pvt. Ltd.
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

Name : Mr. CG34	Billing Date : 07/07/2023 12:39:47
Age : 45 Yrs	Sample Collected on : 10/07/2023 10:01:31
Sex : Male	Sample Received on : 10/07/2023 11:02:13
P. ID No. : P1000100013254	Report Released on :
Accession No : 10002305310	Barcode No. : 10002305310-01
Referring Doctor : Self	Ref no. :
Referred By :	

Report Status - Preliminary Report

Test Name	Result	Biological Ref. Interval	Unit
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CYTOGENETICS

PDGFR- Alpha By FISH

Sample: Sodium Heparin

Fluorescence in-situ Hybridization(FISH) PDGFR alpha gene breakapart rearrangement assay

Specimen:

W.B Heparin

Reason for Referral

Not provided

Method

FISH analysis performed on 200 Interphase nuclei

Probe

Zytolight SPEC PDGFRA/FP1L1 tri Check breakapart probe

Result Summary

Negative

Interpretation

Specimen is negative for PDGFR alpha gene rearrangement or 4q12

Result (ISCN 2020)

nuc ish(FIP1L1×2)(CHIC2×2) (PDGFRA×2),(FIP1L1 con CHIC2 con PDGFRA ×2)[200]

200/200 (100%) interphase nuclei show 2Y fusion signals for PDGFR alpha

Additional Information

FIP1L1-PDGFR α rearrangement is generally found in Chronic Eosinophilic Leukemia (CEL), but the presentation can be as AML, T-lymphoblastic lymphoma, or both simultaneously. Rearrangement is usually cryptic by routine cytogenetics. Primary eosinophilia associated with the FIP1L1-PDGFR α rearrangement represents a subset of chronic eosinophilic leukaemia (CEL) and affected patients are very sensitive to imatinib treatment (Helbig et al. 2006; Loules et al., 2009).

Provisional Report

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Result Table

Chromosome abnormality screened	Result	% abnormal	Cut off (%)
PDGFRA Rearrangement (4q12)	Negative	0	3

References

1. Helbig G, Stella-Holowiecka B, Grosicki S, et al. The results of imatinib therapy for patients with primary eosinophilic disorders. Eur J Haematol. 2006;76(6):535-536.

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1. Loules G, Kalala F, Giannakoulas N, Papadakis E, Matsouka P, Speletas M. FIP1L1-PDGFR molecular analysis in the differential diagnosis of eosinophilia. BMC Blood Disord. 2009;9:1.

Note: Test performed at PATHKINDR004

** End of Report**



Dr. Sarjana Dutt
PhD
Director Molecular Biology & Cytogenetics

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