Patient ID	Patient Name		Birth Date	Gender	Age
SA00000997	SAMPLEREPDMGLM, VLD20150713A0258		1981-01-01	M	34
Order Number	Client Order Number	Ordering Physician	Report Notes		
SA00000997	SA00000997	Client, Client			
Account Information		Collected			
C7028846 DLMP Rochester		12 Jul 2015 18:42			

MLH1 Hypermethylation Analys, Tumor

Result Summary

MCR

NEGATIVE MLH1 METHYLATION

Result

MCR

Tumor tissue: Negative for MLH1 promoter hypermethylation

Interpretation

[1] MCR

This result does not provide evidence for the somatic/epigenetic inactivation of MLH1. Together with the loss of MLH1 protein expression in this patient's tumor, this result suggests the presence of a germline mutation.

Germline testing of the MLH1 gene (MLH1Z / MLH1 Gene, Full Gene Analysis) on an additional blood sample should be considered, if not already performed. Please contact the Molecular Genetics Laboratory at 1–800–533–1710 for more information regarding germline testing for MLH1.

A genetic consultation may be of benefit.

ADDITIONAL INFORMATION

Microscopic examination was performed by a pathologist only to identify areas of tumor for enrichment by macrodissection. A PCR-based assay is used to test tumor DNA for the presence of MLH1 promoter hypermethylation. Test results should be interpreted in the context of clinical findings, family history, and other laboratory data. If results obtained do not match other clinical or laboratory findings, please contact the laboratory for possible interpretation. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.

Reason for Referral

MCR

Tumor demonstrates loss of MLH1 protein expression. Determine the likelihood of a germline MLH1 mutation versus the somatic/epigenetic inactivation of MLH1.

Specimen

MCR

Tissue, Tumor

Tissue ID

MCR

S15–5999

Released By

MCR

EMILY LAUER

Received: 13 Jul 2015 20:28 **Reported:** 27 Jul 2015 08:14

Laboratory Notes

[1] This test was developed and its performance characteristics 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.

Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Dept. of Lab Med and Pathology	200 First Street SW, Rochester, MN 55905