

Patient Name SAMPLEREP, IHCO A	Patient ID SA00058661	Age 46	Gender F	Order # SA00058661
Ordering Phys CLIENT, CLIENT			DOB 06/10/1966	
Client Order # SA00058661	Account Information C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			Report Notes
Collected 06/02/2013 00:00				
Printed 06/03/2013 11:47				

Test	Flag	Results	Unit	Reference Value	Perform Site*
MMR Protein, IHC Only, Tumor					
RECEIVED: 06/03/2013 11:29 REPORTED: 06/03/2013 11:40					
Specimen		Tissue-Tumor			MCR
Specimen ID		1062005			MCR
Order Date		03 Jun 2013 11:32			MCR
Reason For Referral		Possible diagnosis of Hereditary Nonpolyposis Colon Cancer (HNPCC)/Lynch syndrome. Evaluate tissue for evidence of defective DNA mismatch repair.			MCR
Method		Immunohistochemical staining (IHC) is used to determine the presence or absence of protein expression for one or more of the following: MLH1, MSH2, MSH6, and PMS2. Lymphocytes and normal epithelium exhibit strong nuclear staining to serve as positive internal controls for staining of these proteins.			MCR
MLH1 IHC		Performed.			MCR
MSH2 IHC		Performed.			MCR
MSH6 IHC		Performed.			MCR
PMS2 IHC		Performed.			MCR
Result		Tumor type: Colorectal adenocarcinoma IHC: Loss of PMS2; Retention of MLH1, MSH2, and MSH6			MCR
Interpretation		These results indicate loss of normal DNA mismatch repair function within the tumor. Loss of PMS2 protein expression suggests the presence of a germline (heritable) mutation in this gene. Thus, this individual and other family members are at increased risk for having an inherited colon cancer syndrome due to defective DNA mismatch repair (HNPCC/Lynch syndrome).			MCR
		It is important to note that these results do not distinguish between somatic and germline mutations. Germline testing of the PMS2 gene may help to distinguish between these two possibilities and provide the opportunity for predictive testing for at risk family members.			
		A genetic consultation may be of benefit.			
CAUTIONS:		Test results should be interpreted in context of clinical findings, family history, and other laboratory data. If results obtained do not match other clinical or laboratory			

Performing Site Legend on Last Page of Report

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* Report times for Mayo performed tests are CST/CDT

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findings, please contact the laboratory for possible interpretation. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.

Laboratory developed test.

Reviewed By:	Jessica Rose Chavey	MCR
Release Date	03 Jun 2013 11:38	MCR

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:
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