

Client: Example Client ABC123  
123 Test Drive  
Salt Lake City, UT 84108  
UNITED STATES

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 1/14/1952  
**Gender:** Unknown  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Mismatch Repair by Immunohistochemistry with Reflex to BRAF Codon 600 Mutation and MLH1 Promoter Methylation**

ARUP test code 2002327

Mismatch Repair by IHC, Result

Abnormal

Abnormal immunohistochemical staining for mismatch repair proteins correlates well with the presence of microsatellite instability by PCR. The MLH1 Promoter Methylation test (2002499) may be helpful in distinguishing sporadic from Lynch (HNPCC) associated non-colorectal cancers with abnormal MLH1 immunostaining. Controls worked appropriately.

This result has been reviewed and approved by Allie Grossmann, M.D., Ph.D.

INTERPRETIVE INFORMATION: Mismatch Repair by Immunohistochemistry  
Immunohistochemical staining for mismatch repair proteins can be used as a surrogate test for microsatellite instability as measured by PCR. Normal results correlate well with the absence of microsatellite instability, while abnormal results correlate well with the presence of microsatellite instability. The immunohistochemical staining pattern can also be used as a guide for the subsequent germline evaluation of mismatch repair genes (refer to Lynch Syndrome (HNPCC) testing algorithm at ARUPconsult.com).

Genetic counseling is recommended for the interpretation of all results.

Assay is performed on paraffin-embedded, formalin fixed tissue. Antibody clone for MLH1 is ES05, MSH2 is FE11, MSH6 is EP49, and PMS2 is EP51. Detection system is a proprietary polymeric HRP.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

Mismatch Repair by IHC with MLH1

Abnormal

Mismatch Repair by IHC with MSH2

Normal

Mismatch Repair by IHC with MSH6

Normal

Mismatch Repair by IHC with PMS2

Abnormal

H=High, L=Low, \*=Abnormal, C=Critical

Client Case or Ref # ██████████

MSI Tissue Source UTERUS

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Mismatch Repair by IHC, Result	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with MLH1	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with MSH2	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with MSH6	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with PMS2	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Client Case or Ref #	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MSI Tissue Source	20-231-123836	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical