

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: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Mismatch Repair by Immunohistochemistry with Reflex to MLH1 Promoter Methylation

ARUP test code 2005270

Mismatch Repair by IHC Result

Abnormal

Abnormal immunohistochemical staining for mismatch repair proteins correlates well with the presence of microsatellite instability by PCR. The BRAF codon 600 mutation test (0051750) may be helpful in distinguishing sporadic from Lynch (HNPCC) associated colorectal cancers with abnormal MLH1 immunostaining. Controls worked appropriately.

This result has been reviewed and approved by Deepika Sirohi, M.D.

INTERPRETIVE INFORMATION: Mismatch Repair by Immunohistochemistry with Reflex to MLH1 Promoter Methylation

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 # [REDACTED]

MSI Tissue Source COLON

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Mismatch Repair by IHC Result	20-231-123756	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with MLH1	20-231-123756	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with MSH2	20-231-123756	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with MSH6	20-231-123756	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mismatch Repair by IHC with PMS2	20-231-123756	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Client Case or Ref #	20-231-123756	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MSI Tissue Source	20-231-123756	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