

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: 01/01/2017 12:34

Mismatch Repair by Immunohistochemistry

ARUP test code 0049302

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 Georgios Deftereos, M.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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-231-123218
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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4848

Client Case or Ref #



MSI Tissue Source

COLON

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Mismatch Repair by IHC, Result	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM
Mismatch Repair by IHC with MLH1	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM
Mismatch Repair by IHC with MSH2	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM
Mismatch Repair by IHC with MSH6	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM
Mismatch Repair by IHC with PMS2	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM
Client Case or Ref #	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM
MSI Tissue Source	20-231-123218	8/18/2020 4 05:00 PM	8/18/2020 4:06:24 PM	8/18/2020 4:18 00 PM

END OF CHART

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

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