



<u>Procedure</u>	<u>Result</u>	<u>Units</u>	<u>Ref Interval</u>	<u>Accession</u>	<u>Collected</u>	<u>Received</u>	<u>Reported/Verified</u>
Mismatch Repair by IHC, Result	Abnormal			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57
Mismatch Repair by IHC with MLH1	Abnormal			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57
Mismatch Repair by IHC with MSH2	Normal			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57
Mismatch Repair by IHC with MSH6	Normal			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57
Mismatch Repair by IHC with PMS2	Abnormal			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57
Client Case or Ref #	SS20-12478 B4			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57
MSI Tissue Source	Colon			20-178-900043	26-Jun-20 10:41:00	26-Jun-20 10:41:00	26-Jun-20 11:24:57

26-Jun-20 10:41:00 Mismatch Repair by IHC, Result
 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.

26-Jun-20 10:41:00 Mismatch Repair by IHC, Result:
 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

* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab