

Reporting Title: MLH1 Hypermethylation/BRAF Mutation
Performing Location: Rochester

Ordering Guidance:
This test is **not recommended** as a first-tier screening for Lynch syndrome. Order TMSI / Microsatellite Instability, Tumor and IHC / Mismatch Repair (MMR) Protein Immunohistochemistry Only.

This test will only be performed on colon tumors demonstrating loss of MLH1 protein expression.

Necessary Information:
Pathology report **must** accompany specimen in order for testing to be performed.

Specimen Requirements:
Specimen Type: Tissue block or slide
Collection Instructions:

- 1. Submit formalin-fixed, paraffin-embedded tissue block (preferred) or 1 slide stained with hematoxylin and eosin and 10 unstained, nonbaked slides (5 micron-thick sections) of the tumor tissue.
- 2. Sections should contain both tumor and normal tissue.

- Forms:
- 1. [Molecular Genetics: Inherited Cancer Syndromes Patient Information](#) (T519)
 - 2. If not ordering electronically, complete, print, and send an [Oncology Test Request](#) (T729) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		
	Frozen		
	Refrigerated		

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
53223	Result Summary	Alphanumeric		50397-9
53224	Result	Alphanumeric		82939-0
53225	Interpretation	Alphanumeric		69047-9
53226	Specimen	Alphanumeric		31208-2
53227	Source	Alphanumeric		31208-2
53228	Tissue ID	Alphanumeric		80398-1
54921	BRAF Analysis	Alphanumeric		No LOINC Needed
54921	BRAF Analysis	Alphanumeric		No LOINC Needed
54440	MLH1 Hypermethylation Analysis	Alphanumeric		No LOINC Needed
54440	MLH1 Hypermethylation Analysis	Alphanumeric		No LOINC Needed
53229	Released By	Alphanumeric		18771-6
53229	Released By	Alphanumeric		18771-6

55139	Method	Alphanumeric		85069-3
621822	Disclaimer	Alphanumeric		62364-5

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
PBML H	MLH1 Hypermethylation/BRAF Mutation			Yes	No

CPT Code Information:

Slide Review
88381-Microdissection, manual

81210-BRAF (*v-raf murine sarcoma viral oncogene homolog B1*) (eg, colon cancer), gene analysis, V600E variant, if appropriate
81288-MLH1 promoter methylation analysis, if appropriate

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
BMLHH	MLH1 Hypermethylation Analysis	1	81288	No	Yes, (order ML1HM)
BBRAF	BRAF Analysis	1	81210	No	Yes, (order BRAFD)

Reference Values:

An interpretive report will be provided.