

Reporting Title: TP53 gene somatic mutation analysis
Performing Location: Rochester

Ordering Guidance:

For the evaluation of patients suspected of having an inherited or germline *TP53* cancer syndrome (eg, Li Fraumeni syndrome), order one of the following tests containing *TP53*:

- XCP/ Hereditary Expanded Cancer Panel, Varies
- COMCP / Hereditary Common Cancer Panel, Varies
- BRGYP / Hereditary Breast/Gynecologic Cancer Panel, Varies
- CRCGP / Hereditary Gastrointestinal Cancer Panel, Varies
- PANCP / Hereditary Pancreatic Cancer Panel, Varies
- ENDCP / Hereditary Endocrine Cancer Panel, Varies
- THYRP / Hereditary Thyroid Cancer Panel, Varies
- WILMP / Hereditary Wilms Tumor Panel, Varies
- RENCN / Hereditary Renal Cancer Panel, Varies
- PRS8P / Hereditary Prostate Cancer Panel, Varies

Shipping Instructions:

Blood and bone marrow specimens must arrive within 10 days of collection.

Necessary Information:

The following information is required:

1. Pertinent clinical history
2. Clinical or morphologic suspicion
3. Date of collection
4. Specimen source

Specimen Requirements:

Submit only 1 of the following specimens:

Specimen Type: Blood (preferred)

Container/Tube: Lavender top (EDTA) or yellow top (ACD solution B)

Specimen Volume: 3 mL

Collection Instructions:

1. Invert several times to mix blood.
2. Send whole blood specimen in original tube. **Do not aliquot.**
3. Label specimen as blood.

Specimen Stability Information: Ambient/Refrigerate <10 days

Specimen Type: Bone marrow

Container/Tube: Lavender top (EDTA), yellow top (ACD solution B), or green top (heparin)

Specimen Volume: 3 mL

Collection Instructions:

1. Invert several times to mix bone marrow.
2. Send bone marrow specimen in original tube. **Do not aliquot.**

3. Label specimen as bone marrow.
Specimen Stability Information: Ambient/Refrigerate <10 days

Specimen Type: Tissue
Container/Tube: Plastic container
Specimen Volume: 100 mg
Collection Instructions: Stabilize fresh tissue in tissue culture medium or freeze immediately after collection.
Specimen Stability Information: Refrigerate 24 hours/ Frozen

- Forms:**
- 1. [Molecular Hematopathology Patient Information: B-Cell Chronic Lymphocytic Leukemia \(CLL\) for IGVH and/or TP53 Somatic Mutation Testing](#)
 - 2. If not ordering electronically, complete, print, and send a [Hematopathology/Cytogenetics Test Request](#) (T726) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Varies	10 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
P53CA	MP018	Specimen Type:	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
MP018	Specimen Type:	Alphanumeric		31208-2
35759	Final Diagnosis:	Alphanumeric		34574-4
607075	Signing Pathologist	Alphanumeric		19139-5

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

Supplemental Report:
No

CPT Code Information:
81352-TP53 (tumor protein 53) (eg, tumor samples), full gene sequence or targeted sequence analysis of >5 exons

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CSP53	TP53 Pre-Analysis Cell Sorting, V	1	88184	No	No

Test Definition: P53CA

Hematologic Neoplasms, TP53 Somatic
Mutation, DNA Sequencing Exons 4-9, Varies

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
CSP53	607678	TP53 Pre-Analysis Cell Sort	Alphanumeric		No LOINC Needed
CSP53	607687	Final Diagnosis	Alphanumeric		22637-3

Reference Values:

Genetic variants present or absent as compared to a reference sequence of the normal *TP53* gene