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**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

**Specimen Minimum Volume:**

Blood, bone marrow: 1 mL

**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
607075	Signing Pathologist	Alphanumeric		19139-5
35759	Final Diagnosis:	Alphanumeric		34574-4

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	Orderable Separately
CSP53	TP53 Pre-Analysis Cell Sorting, V			No	No

**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