
PIK3CA Mutation Analysis, Tumor

Test ID: PIK3T

Explanation:

Effective immediately, PIK3T testing is unavailable due to a reagent issue.

Specimens already received at MCL prior to this downtime will be stabilized and tested during this period. While there is no direct alternative for this assay, a tissue-based test that includes the *PIK3CA* gene is available and may be considered (details provided below). An update will be shared once testing resumes.

Recommended Alternative Test:

MayoComplete Gastrointestinal Stromal Tumor (GIST) Panel, Next-Generation Sequencing, Tumor

Test ID: MCGST

Methodology:

Sequence Capture and Targeted Next-Generation Sequencing (NGS)

Reference Values:

An interpretive report will be provided.

Specimen Requirements:

This assay requires at least 20% tumor nuclei.

- Preferred amount of tumor area with sufficient percent tumor nuclei: tissue 216 mm(2)
 - Minimum amount of tumor area: tissue 36 mm(2)
 - These amounts are cumulative over up to 10 unstained slides and must have adequate percent tumor nuclei.
 - Tissue fixation: 10% neutral buffered formalin, not decalcified
 - For specimen preparation guidance, see [Tissue Requirement for Solid Tumor Next-Generation Sequencing](#).
- In this document, the sizes are given as 4 mm x 4 mm x 10 slides as preferred: approximate/equivalent to 144 mm(2) and the minimum as 3 mm x 1 mm x 10 slides: approximate/equivalent to 36 mm(2).

Preferred: Submit 3, if available, or 2 of the following specimens..

Acceptable: Submit at least one of the following specimens.

Specimen Type:	Tissue block
Collection Instructions:	Submit a formalin-fixed, paraffin-embedded tissue block with acceptable amount of tumor tissue.
Specimen Type:	Tissue slide
Slides:	1 Hematoxylin and eosin-stained and 10 unstained
Collection Instructions:	Submit the followings slides: 1 Slide stained with hematoxylin and eosin AND 10 Unstained, nonbaked slides with 5-micron thick sections of the tumor tissue.
Note:	The total amount of required tumor nuclei can be obtained by scraping up to 10 slides from the same block.
Additional Information	Unused unstained slides will not be returned.
Specimen Type:	Cytology slide (direct smears or ThinPrep)
Slides:	1 to 3 Slides
Collection Instructions:	Submit 1 to 3 slides stained and coverslipped with a total of 5000 nucleated cells (preferred) or at least 3000 nucleated cells (minimum).
Note:	Glass coverslips are preferred; plastic coverslips are acceptable but will result in longer turnaround times.
Additional Information	Cytology slides will not be returned. An image of the slides will be stored per regulatory requirements.

Specimen Stability Information:

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

CPT Code:

88381-Microdissection, manual
81457

Day(s) Performed: Monday through Friday

Report Available: 12 to 20 days

Questions

Contact Michelle Rath, Laboratory Resource Coordinator at 800-533-1710.