

Notification Date: June 20, 2022 Effective Date: June 30, 2022

PIK3CA Mutation Analysis, Tumor

Test ID: PIK3T

Useful for:

Identification of hormone receptor positive and human epidermal growth factor receptor 2 negative (HR+/HER2-) advanced breast cancer tumors that may be eligible for treatment with targeted kinase inhibitor therapy (eq. alpelisib).

Methods:

Polymerase Chain Reaction (PCR)

Reference Values:

An interpretive report will be provided

Specimen Requirements:

This assay requires at least 20% tumor nuclei.

The amount of tissue needed is dependent on a variety of preanalytical factors (eg, cellularity, ischemic time, fixation).

The FFPE input required is equivalent to a 4 to 5 micron slide thickness with a total tumor surface area of 100 mm(2). This can be created by combining material from multiple slides from one tissue block.

Preferred:

Specimen Type: Tissue block

Collection Instructions: Submit a formalin-fixed, paraffin-embedded tissue block.

Acceptable:

Specimen Type: Tissue slide

Collection Instructions: Submit 1 slide stained with hematoxylin and eosin and 10 unstained, nonbaked

slides with 5-micron thick sections of the tumor tissue.

Specimen Stability Information:

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

Cautions:

- A negative (wildtype) result does not rule out the presence of a mutation that may be present but below the limits of detection of this assay. It also does not rule out the presence of other types of alterations in the PIK3CA gene outside those that the assay was designed to detect.
- This test is not designed to differentiate between somatic and germline alterations. Additional testing may be necessary to clarify the significance of results if there is a potential hereditary risk.
- Not all tumors that have PIK3CA mutations will respond to targeted therapies.
- Rare genetic alterations exist that could lead to false-negative or false-positive results.
- Test results should be interpreted in context of clinical findings, tumor sampling, and other laboratory data.
 If results obtained do not match other clinical or laboratory findings, please contact the laboratory for
 possible interpretation. Misinterpretation of results may occur if the information provided is inaccurate or
 incomplete.

CPT Code:

81309

Day(s) Performed: Monday through Friday Report Available: 8 to 12 days

Questions

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