MAYO CLINIC LABORATORIES

NEW TEST

Notification Date: October 22, 2024
Effective Date: October 22, 2024

TGFBR3 (1p22), OGA (10q24) Rearrangement, FISH, Tissue

Test ID: TGOGF

Useful for:

Supporting the diagnosis of pleomorphic hyalinizing angiectatic tumor (PHAT), or hemosiderotic fibrolipomatous tumors (HFLT) associated with rearrangement of the OGA and/or TGFBR3 gene when used in conjunction with an anatomic pathology consultation. Rearrangement of the OGA and/or TGFBR3 gene may be present in other neoplastic processes.

Reflex Tests:

Test ID	Reporting Name	Available Separately	Always Performed
_PBCT	Probe, +2	No (Bill Only)	No
_PADD	Probe, +1	No (Bill Only)	No
_PB02	Probe, +2	No (Bill Only)	No
_PB03	Probe, +3	No (Bill Only)	No
_IL25	Interphases, <25	No (Bill Only)	No
_I099	Interphases, 25-99	No (Bill Only)	No
_I300	Interphases, >=100	No (Bill Only)	No

Methods:

Fluorescence In Situ Hybridization (FISH)

Reference Values:

An interpretive report will be provided.

Specimen Requirements:

Preferred: Tissue Block

Collection Instructions: Submit a formalin-fixed, paraffin-embedded tumor tissue block. Blocks prepared with alternative fixation methods will be attempted but are less favorable for successful results; provide fixation method used.

Acceptable:	Tissue slides
Specimen Volume:	1 Hematoxylin and eosin stained and 6 unstained
Collection Instructions:	Submit 1 slide stained with hematoxylin and eosin and 6 consecutive unstained, positively-charged, unbaked slides with 5 micron-thick sections of the tumor tissue.
Minimum Volume:	1 Hematoxylin and eosin stained and 2 unstained

Specimen Stability Information:

Specimen Type	Temperature	Time
Tissue	Ambient (preferred)	
	Refrigerated	

Cautions:

This test is not approved by the US Food and Drug Administration, and it is best used as an adjunct to existing clinical and pathologic information.

Fixatives other than formalin (eg, Prefer, Bouin's) may not be successful for fluorescence in situ hybridization (FISH) assays. Non-formalin fixed specimens will not be rejected.

Paraffin-embedded tissues that have been decalcified may not be successful for FISH analysis. The success rate of FISH studies on decalcified tissue is approximately 50%, but FISH will be attempted if sufficient tumor is present for analysis.

If no FISH signals are observed post-hybridization, the case will be released indicating a lack of FISH results.

CPT Code:

88271x2, 88291 DNA probe, each (first probe set), Interpretation and report
88271x2-DNA probe, each; each additional probe set (if appropriate)
88271-DNA probe, each; coverage for sets containing 3 probes (if appropriate)
88271x2-DNA probe, each; coverage for sets containing 4 probes (if appropriate)
88271x3-DNA probe, each; coverage for sets containing 5 probes (if appropriate)
88274 w/modifier 52-Interphase in situ hybridization, <25 cells, each probe set (if appropriate)
88274-Interphase in situ hybridization, 25 to 99 cells, each probe set (if appropriate)
88275-Interphase in situ hybridization, 100 to 300 cells, each probe set (if appropriate)

Day(s) Performed: Monday through Friday **Report Available:** 7 to 10 days

Questions

Contact Josh Couchene, Laboratory Resource Coordinator at 800-533-1710.