



Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



TFE3 Rearrangement

Alternative Name

Transcription factor E3

Methodology

FISH

Test Description

Probe(s): TFE3 (Xp11.2)

Disease(s): Renal cell carcinoma (RCC), alveolar soft part sarcoma (ASPS)

Clinical Significance

Chromosome Xp11.2 translocations causing TFE3 gene rearrangement and fusions define the "MiT family translocation RCC" category in the 2016 WHO renal cell carcinoma classification. Alveolar soft part sarcoma (ASPS) is a rare soft tissue tumor caused by balanced or unbalanced translocation between TFE3 and the ASPL gene on chromosome 17. FISH may be used to diagnose RCC subtype and ASPS, and FISH has been reported to be more reliable in detecting translocations than TFE3 IHC.

Specimen Requirements

- **Bone marrow aspirate:** N/A
- **Peripheral blood:** N/A
- **Fresh, unfixed tissue:** N/A.
- **Fluids:** N/A
- **Paraffin block:** Send paraffin block. Also send circled H&E slide for tech-only (required).
- **Cut slides:** H&E slide (required) plus 4 unstained slides cut at 4-5 microns. Circle H&E slide for tech-only.

Storage & Transportation

Use cold pack for transport, making sure cold pack is not in direct contact with specimen.

CPT Code(s)*

88374x1 automated or 88377x1 manual

New York Approved

Yes

Level of Service

Global, Technical

Turnaround Time

5 days 3 for tech-only

References

1. Argani P. *Semin Diagn Pathol.* 2015;32(2):103-13.
2. Pei J et al. *Mod Pathol.* 2019;32:710-716.
3. Pradhan D et al. *Diagn Pathol.* 2015;10:179+.

*The CPT codes provided with our test descriptions are based on AMA guidelines and are for informational purposes only. Correct CPT coding is the sole responsibility of the billing party.

Please direct any questions regarding coding to the payor being billed.

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