



Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



TCL1 ***

Alternative Name

T-cell leukemia 1

Methodology

FISH

Test Description

Probes: TCL1 (14q32.1)

Disease(s): mature T-cell leukemia, T-cell prolymphocytic leukemia (T-PLL), adult T-cell leukemia/lymphoma (ATLL)

Clinical Significance

This breakpoint probe covers breakpoint regions in the TCL1 (T-cell leukemia) gene cluster on chromosome 14q32 which encompasses TCL1A, TCL1B, and other genes. TCL1 translocations and inversions occur in mature T-cell leukemias including T-cell prolymphocytic leukemia (T-PLL) and adult T-cell leukemia/lymphoma (ATLL). These rearrangements cause gene overexpression due to juxtaposition with TCR-alpha or TCR-beta regulatory elements and contribute to oncogenesis.

Specimen Requirements

- **Bone Marrow Aspirate:** 1-2 mL sodium heparin tube. EDTA tube is acceptable.
- **Peripheral Blood:** 2-5 mL sodium heparin tube. EDTA tube is acceptable
- **Fresh, Unfixed Tissue:** Tissue in RPMI
- **Fluids:** Equal parts RPMI to specimen volume
- **Paraffin block:** Send paraffin block. Also send circled H&E slide for tech-only (required). *** *Testing on this specimen type is not yet available for NY specimens.****
- **Cut slides:** H&E slide (required) plus 4 unstained slides cut at 4-5 microns. Circle H&E slide for tech-only.
- **Note:** Please exclude biopsy needles, blades, and other foreign objects from transport tubes. These can compromise specimen viability and yield, and create hazards for employees.

Storage & Transportation

Use cold pack for transport. Make sure cold pack is not in direct contact with specimen. For fresh samples: ship same day as drawn whenever possible; specimens <72 hours old preferred.

CPT Code(s)*

88377x1 manual or 88374x1 automated.

New York Approved

Yes

Level of Service

Technical, Global

Turnaround Time

3-5 days for unfixed or FFPE specimens

NeoGenomics Laboratories is a specialized oncology reference laboratory providing the latest technologies, testing partnership opportunities, and interactive education to the oncology and pathology communities. We offer the complete spectrum of diagnostic services in molecular testing, FISH, cytogenetics, flow cytometry, and immunohistochemistry through our nation-wide network of CAP-accredited, CLIA-certified laboratories.

Committed to research as the means to improve patient care, we provide Pharma Services for pharmaceutical companies, in vitro diagnostic manufacturers, and academic scientist-clinicians. We promote joint publications with our client physicians. NeoGenomics welcomes your inquiries for collaborations. Please contact us for more information.

*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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