



Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.





CDKN2A/B (p16) Deletion for Mesothelioma or Glioma

Methodology

FISH

Test Description

Probes: CDKN2A/B (p16) (9p21) | Centromere 9

Disease(s): Mesothelioma, Glioma

Clinical Significance

Detection of homozygous deletions of CDKN2A/B (also called p16) by FISH is useful to distinguish malignant pleural mesothelioma (MPM) and diffuse malignant peritoneal mesothelioma (DMPM) from reactive mesothelial hyperplasia (RMH) and epithelial ovarian cancer (EOC). While morphologic, immunocytochemical, and immunohistochemical analyses determine the mesothelial origin of such neoplasms, CDKN2A/B FISH enables differentiation of benign from malignant proliferations with high specificity and positive predictive value, particularly when combined with BAP-1 IHC. Homozygous deletions have been reported in 70-80% of MPM cases and are associated with shorter survival in these patients.

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)*

88377(x1) Manual or 88374(x1) Automated

New York Approved

Yes

Level of Service

Technical, Global

Turnaround Time

5 days

*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.

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.

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