



Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



Plasma Cell Myeloma FISH Panel

Alternative Name

Multiple Myeloma-MGUS, MM-MGUS FISH Panel

Methodology

FISH

Test Description

Probes: 1p-, 1q+, iso(1q): CDKN2C (1p32), CKS1B (1q21) | +5, hyperdiploidy (5p15) | +9, hyperdiploidy (9q22) | +15, hyperdiploidy (15q22) | 13q- (13q14, 13q34) | IgH (14q32) | 17p- (TP53 17p13.1, NF1 17q11.2)

Probes may be ordered separately except +5, +9 and +15 which are combined.

Global cases with IgH rearrangement will automatically reflex to the [Plasma Cell Myeloma IgH Complex FISH Panel](#) unless client has opted out.

Disease(s): Plasma cell myeloma, multiple myeloma

Note: Plasma cell enrichment will be performed on bone marrow samples unless our client directs us otherwise. (Peripheral blood is not recommended as a screening specimen unless increased plasma cells are seen on blood smear.) Specimens should be received in our laboratory within 72 hours of collection.

Clinical Significance

The panel is used for the detection of FISH and chromosome aberrations useful in prognosis in plasma cell myeloma. As malignant plasma cells often have a low proliferation index, conventional cytogenetics frequently yields normal results. When this happens, interphase FISH studies can increase the abnormality detection rate.

Specimen Requirements

- **Bone Marrow Aspirate:** 1-2mL Sodium Heparin Tube. EDTA tube is acceptable
- **Peripheral Blood:** Plasma cell enrichment was not validated using peripheral blood; therefore, it is not recommended as a screening specimen unless increased plasma cells are seen on blood smear. 2-5mL Sodium Heparin Tube. EDTA tube is acceptable
- **Fresh, Unfixed Tissue:** Tissue in RPMI
- **Bone Marrow/ Peripheral Blood Smear or Fresh Tissue Touch Preparation Slides:** minimum 5 slides labeled with specimen type.
- **Fluids:** Equal parts RPMI to specimen volume.
- **Fixed Cell Suspension:** A client fixed cell suspension may be submitted for testing as long as it is received in 3:1 Methanol:Glacial Acetic Acid.
- **Paraffin Block or Cut Slide:** N/A
- **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

Refrigerate specimen. Do not freeze. Use cold pack for transport, making sure cold pack is not in direct contact with specimen. Specimens should be received in our laboratory within 72 hours of collection.

CPT Code(s)*

88374x5 automated or 88377x5 manual without reflex; with reflex add 88374x4 automated or 88377x4 manual

New York Approved

Yes

Level of Service

Technical, Global

Turnaround Time

3-5 days. Add 3-5 days if reflexed.

*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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