
Lab Dept: **Anatomic Pathology**

Test Name: **GENE REARRANGEMENT, B CELL, BLOOD**

General Information

Lab Order Codes: GENB

Synonyms: Gene-B; Immunoglobulin Gene Rearrangement; IgH

CPT Codes: 81261 – IGH@, gene rearrangement analysis to detect abnormal clonal populations; amplified methodology

Test Includes: Immunoglobulin heavy chain (JH Framework 2 and 3) rearrangement. JH and kappa (CK) or lambda light chain by Southern transfer when requested at an additional charge.

Logistics

Test Indications: Evaluation for clonal rearrangements of the immunoglobulin heavy chain as an adjunct in diagnosing lymphoma and leukemia of B-cell lineage.

Lab Testing Section: Anatomic Pathology - Sendouts

Referred to: Fairview-University Diagnostic Laboratories

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: For best results, specimens should arrive by 2:00 PM Friday

Turnaround Time: Results available in 7-14 days.

Special Instructions: Indicate on request form if Southern transfer technique is desired. Obtain special yellow top tubes (Solution A) from the laboratory.

Specimen

Specimen Type: Whole blood

Container: Yellow top (ACD Solution A) tube
Alternate container: Lavender top (EDTA) tube

Draw Volume: 10 mL (Minimum: 5 mL) blood

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| Processed Volume: | Same as Draw Volume |
| Collection: | Routine venipuncture Contact Molecular Diagnostic Laboratory prior to specimen collection |
| Special Processing: | Lab Staff: Store at room temperature. Do Not freeze. Contact laboratory prior to shipping. Ship blood at room temperature to arrive within 24 hours. Order FUMC test codes GNRBPCR. Specimens collected on the weekend should be shipped to FUMC for appropriate storage. |
| Patient Preparation: | None |
| Sample Rejection: | Clotted blood; frozen specimen; mislabeled or unlabeled specimens |

Interpretive

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| Reference Range: | Results are reported as negative (germline or no rearrangement noted) or positive (clonal rearrangement indicating clonal cell populations present). Correlations with immunophenotypic, histopathologic, and cytogenetic data will be included with the interpretation of the molecular data when available |
| Critical Values: | N/A |
| Limitations: | N/A |
| Methodology: | Amplification of DNA and confirmation by RFLP (restriction fragment length polymorphism) analysis using Southern transfer technique when appropriate |
| References: | Fairview-University Diagnostic Laboratory Web Page http://labguide.fairview.org/diagnostic/asp January 2012 |
| Updates: | 1/18/2006: CPT 2006 updates 1/10/2007: CPT 2007 updates 2/6/2013: CPT update |