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**Lab Dept:**                      **Anatomic Pathology**

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

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***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.

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***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 (FV test: GNRBPCR)

**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 7-10 days.

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

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***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

<b>Processed Volume:</b>	Same as Draw Volume
<b>Collection:</b>	Routine blood collection Contact Molecular Diagnostic Laboratory prior to specimen collection
<b>Special Processing:</b>	Lab Staff: Store at room temperature. <b>Do Not freeze.</b> 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.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Clotted blood; frozen specimen; mislabeled or unlabeled specimens

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### ***Interpretive***

<b>Reference Range:</b>	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
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Amplification of DNA and detection by capillary electrophoresis. Confirmation by RFLP (restriction fragment length polymorphism) analysis using Southern transfer technique when appropriate
<b>References:</b>	<a href="#">Fairview-University Diagnostic Laboratory</a> January 2018
<b>Updates:</b>	1/18/2006: CPT 2006 updates 1/10/2007: CPT 2007 updates 2/6/2013: CPT update