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**Lab Dept:** Flow and Immunology

**Test Name:** CD19/20 RITUXIMAB PANEL

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***General Information***

**Lab Order Codes:** C1920

**Synonyms:** Flow for Rituximab, CD20 Depletion

**CPT Codes:** 86355 – B cells, total count  
86359 – T cells, total count

**Test Includes:** CD3, CD19, and CD20 per cent and total count

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***Logistics***

**Test Indications:** Monitoring the effectiveness of Rituximab therapy.

**Lab Testing Sections:** Flow Cytometry

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** 3 times weekly, determined by volume. Transport collected specimen immediately to Flow Cytometry. Routine testing is not available on weekends or holidays. Therefore, specimens cannot be used if drawn the day before a 3 day weekend such as Memorial Day, Labor Day or major holiday that falls on a Monday or Friday.

**Turnaround Time:** 1 – 3 days

**Special Instructions:** See [Test Availablity](#)

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***Specimen***

**Specimen Type:** Whole blood

**Container:** Lavender top (EDTA) tube

**Draw Volume:** 2 mL (Minimum: 0.5 mL in an EDTA microtainer tube) blood

**Processed Volume:** Same as Draw Volume

**Collection:** Routine venipuncture. Keep sample at room temperature and forward promptly to the laboratory.

**Special Processing:** Lab Staff: Do Not centrifuge, refrigerate or freeze sample. Deliver to Flow Cytometry.

**Patient Preparation:** None

**Sample Rejection:** Clotted specimens, hemolyzed specimens, specimens greater than 72 hours old. Specimens collected in the wrong tube. Frozen or refrigerated specimens. Mislabeled or unlabeled specimens.

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### ***Interpretive***

**Reference Range:** Age dependant reference values will be provided with results.

**Critical Values:** N/A

**Limitations:** Poor specimens quality will adversely affect the test results.

The single platform is linear when the white blood count (WBC) of the specimen is between 0.2 k/uL and 29.7 k/uL, and the lymphocyte concentration is between 0.1 k/uL and 9.0 k/uL.

**Methodology:** Single platform 4 color direct immunofluorescence. Flow cytometric analysis based on CD45 gating strategy.

In cases where the WBC of the specimen exceeds the linearity limits of the single platform method, an alternative two platform method will be used.

**References:** MultiTEST™ IMK Kit package insert, Becton Dickinson Immunocytometry, December 2000