**Lab Dept:** Serology

**Test Name:** ANTI–GBM ANTIBODY

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**General Information**

**Lab Order Codes:** GBM

**Synonyms:** Glomerular Basement Membrane Antibody - Ig, Serum; Anti-GMB; Antiglomerular Basement Membrane Antibody – IgG; Basement Membrane Antibody; Basement Membrane, Glomerular Antibody; GBM (Glomerular Basement Membrane Antibody); GBM Antibody; Glomerular Anti-Basement Membrane; Goodpasture’s Syndrome, kidney or lung biopsy

**CPT Codes:** 83520 – Immunoassay, analyte, quantitative; not otherwise specified

**Test Includes:** Glomerular Basement Membrane IgG antibody reported as negative or positive.

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**Logistics**

**Test Indications:** Useful for evaluation of patients with rapid onset renal failure or pulmonary hemorrhage or as an aid in the diagnosis of Goodpasture’s syndrome.

**Lab Testing Sections:** Serology - Sendouts

**Referred to:** Mayo Medical Laboratories (Test: GBM)

**Phone Numbers:**
- MIN Lab: 612-813-6280
- STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 3 days, test is set up Sunday - Friday

**Special Instructions:** N/A

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**Specimen**

**Specimen Type:** Blood

**Container:** SST (Gold, marble or red)

**Draw Volume:** 1.5 mL (Minimum: 1.2 mL) blood

**Processed Volume:** 0.5 mL (Minimum: 0.35 mL) serum
**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen and remove serum aliquot. Store and send specimen at refrigerated temperatures. Forward promptly.

**Patient Preparation:** None

**Sample Rejection:** Gross hemolysis; warm specimens; gross lipemia; mislabeled specimens or unlabeled specimens

**Interpretive**

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>All Ages:</th>
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<tbody>
<tr>
<td>&lt;1.0 U</td>
<td>Negative</td>
</tr>
<tr>
<td>≥1.0 U</td>
<td>Positive</td>
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**Interpretation:** Positive results are consistent with Goodpasture’s syndrome. GBM antibodies detected by immunoassay have been reported to be highly specific for Goodpasture’s syndrome. The sensitivity of this test approaches 87% in untreated patients with systemic disease.

**Critical Values:** N/A

**Limitations:** A positive test for anti-GBM cannot be relied upon exclusively to establish the diagnosis of a disease mediated by GBM antibodies. Weakly positive test results may occur in other immune-mediated diseases, and renal or lung biopsy is often required to establish the diagnosis.

**Methodology:** Multiplex Flow Immunoassay

**References:** [Mayo Medical Laboratories Web Page](https://www.mayoclinic.org) December 2017

**Updates:**
- 3/24/2006: Reference range change previously listed as ≤5.0 EU/mL (negative); 5.1 – 20.0 EU/mL (borderline); 20.1 – 400.0 EU/mL (positive)
- 11/18/2008: Reference range change at MML.
- 4/19/2011: Method change, previously listed as Enzyme Linked Immunosorbent Assay (ELISA) Enzyme Immunoassay (EIA).
- 12/21/2017: Collection container update.