
Lab Dept: Serology

Test Name: ANTI-GBM ANTIBODY

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 Syndrome

CPT Codes: 83516 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; qualitative or semi-quantitative, multiple step method

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

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 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 Monday - Friday

Special Instructions: N/A

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. Specimen stable refrigerated (preferred) or frozen for 21 days.
Patient Preparation:	None
Sample Rejection:	Gross hemolysis; warm specimens; gross lipemia; mislabeled specimens or unlabeled specimens

Interpretive

Reference Range:	All Ages:	
	<1.0 U	Negative
	≥1.0 U	Positive
<p>Interpretation: Positive results are consistent with Goodpasture syndrome. GBM antibodies detected by immunoassay have been reported to be highly specific for Goodpasture syndrome. The sensitivity of this test approaches 87% in untreated patients with systemic disease.</p>		

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 Clinic Laboratories (December 2023)
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. 12/11/2023: Updated CPT code, added specimen stability.