Glutamic Acid Decarboxylase-65 Antibody

CPT Code: 86341
Order Code: C1574
ABN Requirement: No
Synonyms: GAD-65 Antibodies
Specimen: Serum
Volume: 1.0 mL
Minimum Volume: 0.5 mL
Container: Gel-barrier tube (SST, Tiger Top)

Collection:

Serum:

1. Collect and label sample according to standard protocols.
2. Gently invert tube 5 times immediately after draw. DO NOT SHAKE.
3. Allow blood to clot 30 minutes.
4. Centrifuge at 1300 rcf for 10 minutes.

Transport: Store serum at 2°C to 8°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab, Inc. shipping box.

Stability:

Ambient (15-25°C): 7 days
Refrigerated (2-8°C): 14 days
Frozen (-20°C): 28 days
Deep Frozen (-70°C): 28 days

Causes for Rejection: Specimens other than serum; improper labeling; samples not stored properly; samples older than stability limits

Methodology: Enzyme Linked Immunosorbent Assay (ELISA)

Turn Around Time: 5 to 7 days
**Reference Range:**

<table>
<thead>
<tr>
<th>Age</th>
<th>IU/mL</th>
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<tbody>
<tr>
<td>All Ages</td>
<td>&lt;5</td>
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**Clinical Significance:** Glutamic acid decarboxylase-65 (GAD-65) antibody is useful to diagnose insulin dependent diabetes mellitus (Type I diabetes [autoimmune-mediated diabetes]) to assess risk for development of Type I diabetes, to predict onset of Type I diabetes, and risk of development of related endocrine disorders, e.g. thyroiditis. Before clinical onset, Type I diabetes is characterized by lymphocytic infiltration of the islet cells, and by circulating autoantibodies against a variety of islet cell antigens, including GAD-65, IA-2 (a tyrosine phosphatase-like protein), and insulin (IAA).

**Limitations:** GAD-65 antibodies are detected in 20% of diabetic twins who remain disease-free for long periods of time and in 8% of healthy individuals.