# ISLET ANTIGEN 2 ANTIBODY

## General Information

**Lab Order Codes:** IA2  
**Synonyms:** IA-2; ICA-512; Anti-IA2 Antibodies; Islet Cell Antibody  
**CPT Codes:** 86341 - Islet cell antibody  
**Test Includes:** Islet Antigen 2 antibody reported in nmol/L.

## Logistics

**Test Indications:** Clinical distinction of type 1 from type 2 diabetes mellitus and for identification of individuals at risk of type 1 diabetes. Prediction of future need for insulin treatment in adult-onset diabetic patients.

**Lab Testing Sections:** Serology - Sendouts  
**Referred to:** Mayo Medical Laboratories (MML: IA2)  
**Phone Numbers:**  
- MIN Lab: 612-813-6280  
- STP Lab: 651-220-6550  
**Test Availability:** Daily, 24 hours  
**Turnaround Time:** 3 - 9 days  
**Special Instructions:** N/A

## Specimen

**Specimen Type:** Blood  
**Container:** SST tube, Gold or Marble  
**Draw Volume:** 4.5 mL (Minimum: 3 mL) blood  
**Processed Volume:** 1.5 mL (Minimum: 1 mL) serum  
**Collection:** Routine venipuncture
Special Processing: Lab Staff: Centrifuge specimen and remove aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens; gross hemolysis; gross lipemia; gross icterus

**Interpretive**

Reference Range: All ages: ≤ 0.2 nmol/L

Note: >0.02 nmol/L is considered positive
Seropositivity for IA-2 autoantibody is supportive of:
● A diagnosis of type 1 diabetes
● A high risk for future development of diabetes
● A current or future need for insulin therapy in patients with diabetes

Critical Values: N/A

Limitations: Negative results do not exclude the diagnosis of or future risk for type 1 diabetes mellitus. The risk of developing type 1 diabetes may be stratified further by testing for: 1. Antibodies targeting insulin, glutamic acid decarboxylase, and zinc transporter 8 (ZnT8) and 2. HLA genetic markers. Careful monitoring of hyperglycemia is the mainstay of determining the requirement for insulin therapy.

Methodology: Radioimmunoassay (IA)

References: Mayo Clinic Laboratories June 2020