**Clinical Use**
- Assess risk for type 1 diabetes
- Predict onset of type 1 diabetes
- Diagnose new onset type 1 diabetes

**Reference Range**
Adults and children <1 U/mL

**Interpretive Information**
- Prediabetic (type 1) subjects
- Polyendocrine autoimmune syndromes
- Other autoimmune disease

**Clinical Background**
Type 1 diabetes is characterized by lymphocytic infiltration of pancreatic islet cells and autoantibodies against several islet cell antigens including glutamic acid decarboxylase (GAD-65), IA-2, and insulin. This assay is designed to assess the low titers of autoantibody in prediabetic subjects and other patients with autoimmune disorders who have not received exogenous insulin. For type 1 diabetes risk assessment, a combination of IA-2, GAD-65, and insulin autoantibodies increases the sensitivity.

**Method**
- Radiobinding assay (RBA)

**Specimen Requirements**
1 mL frozen serum (no additive red top tube); 0.2 mL minimum
SST red top unacceptable