

Division of Laboratory Medicine

Immunology

IA2

Also known as: tyrosine phosphatase-related islet antigen 2

Referred to:

Department of Immunology
PO Box 894
Sheffield
S5 7YT

General information

Indication: Autoimmune Diabetes mellitus

Specimen transport: At room temperature

Repeat frequency: At change of clinical symptoms

Special precautions: None

Laboratory information

Normal reference range: 0 - 10 IU/mL

Volume and sample type: 2 mL serum.

Method: ELISA

Turnaround time: (calendar days from sample receipt to authorised result): Median - 16, 95th percentile - 34

Clinical information

Indications for the test: Type 1 diabetes is the result of T-cell mediated destruction of the beta cells in the pancreas. There are several antibodies that may be present such as GAD65 antibodies, islet cell antibodies and islet tyrosine phosphatase 2 (IA2) antibodies. These antibodies can be used to predict the onset of diabetes mellitus. In the assessment of first degree relatives for autoimmune diabetes, positive results in more than one of the marker antibodies (GAD, Islet cell, IA2 or insulin) can be associated with the onset of autoimmune diabetes. IA2 antibodies have been shown to be a better marker of glycemic control and of a lower insulin requirement, indicating residual beta-cell function. For additional information please see our referral laboratory's user guide: <https://www.immgas.org.uk/TestItem.asp?id=476>

(Last updated May 2018)