

ARG80781 Human IA2 autoantibody ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG80781 Human IA2 autoantibody ELISA Kit is intended for use by professional persons only, for the quantification of IA-2 autoantibodies in human serum. Autoantibodies to pancreatic beta cell antigens are important serological markers of type 1 diabetes mellitus (type 1 DM). The antigens recognised by these antibodies include insulin, glutamic acid decarboxylase (GAD65 kDa isoform) and the islet cell antigen IA-2 or ICA-512.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	IA2 autoantibody
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	1.25 U/ml
Sample Type	Serum.
Standard Range	7.5 - 4,000 U/ml
Sample Volume	50 µl

Application Instructions

Assay Time	16-20 h, 1 h (2-8 °C), 20 min (RT/shaker), 20 min (RT/dark)
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

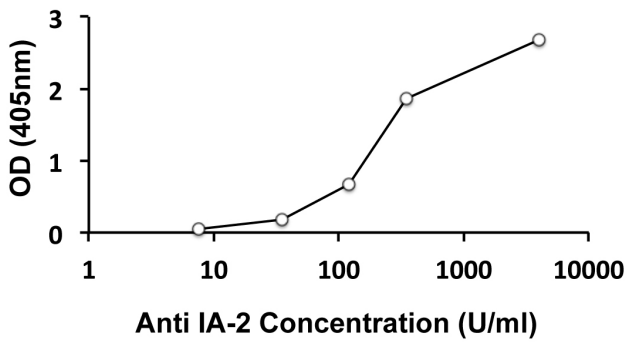
Gene Full Name	IA2 autoantibody (Islet Antigen 2 autoantibody)
Background	Islet cell autoantibodies have been known to be associated with type 1 diabetes mellitus for 36 years. In recent years, several autoantigens against which islet antibodies are directed have been identified. These include the tyrosine phosphatase-related islet antigen 2 (IA-2), glutamic acid decarboxylase 65, the zinc transporter ZnT8, and insulin. One or more of these autoantibodies are detected in 96% of patients with type 1 diabetes, and are detectable before clinical onset, as well as in symptomatic individuals. A serological study of 50 type 1 diabetics and 50 control subjects conducted simultaneously across 43 laboratories in 16 countries demonstrated a median sensitivity of 57% and a median specificity of 99% for IA-2 antibody in type 1 diabetes. Prospective studies in relatives of patients with type 1 diabetes have shown that development of 1 or more islet autoantibodies (including IA-2 antibody) provides an early marker of progression to type 1 diabetes. Autoantibody profiles identifying

patients destined to develop type 1 diabetes are usually detectable before age 3. In 1 study of relatives seropositive for IA-2 antibody, the risk of developing type 1 diabetes within 5 years was 65.3%. Some patients with type 1 diabetes are initially diagnosed as having type 2 diabetes because of symptom onset in adulthood, societal obesity, and initial insulin-independence. These patients with "latent autoimmune diabetes in adulthood" may be distinguished from those patients with type 2 diabetes by detection of 1 or more islet autoantibodies (including IA-2). [From Mayo Medical Laboratories]

Resrarch Area

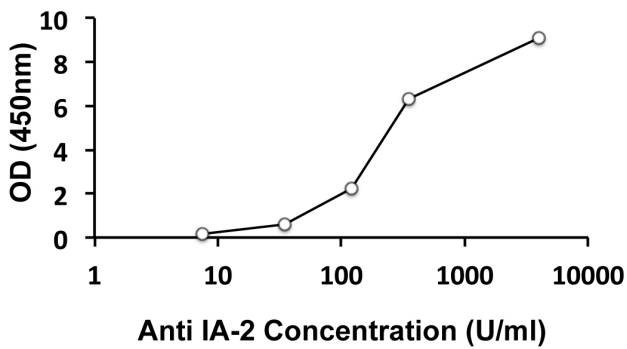
Metabolism kit; Neuroscience kit; Signaling Transduction kit

Images



ARG80781 Human IA2 autoantibody ELISA Kit standard curve example image for Adrenaline

The representative standard curve of ARG80781 Human IA2 autoantibody ELISA Kit. The standard curve is for demonstration only and cannot be used in place of data generations at the time of assay. The standard curve should be generated each time the assay is performed.



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