Autoimmune Polyendocrinopathy

The term Autoimmune Polyendocrinopathy (also known as Schmidt's syndrome) refers to an autoimmune disease affecting multiple endocrine organs like pancreas, adrenal gland or thyroid gland.

ADDISON'S DISEASE

Indirect immmunofluorescence assay is the conventional method for the determination of anti-adrenal cortex antibodies (AACA).

The presence of cytoplasmic adrenal antibodies (AACA) is strongly indicative of Addison's disease, an uncommon disorder due to a deficiency of adrenocortical hormones. Almost all individuals with a primary amenorrhea and Addison's disease have detectable cytoplasmic adrenal antibodies. These autoantibodies are useful markers for the prediction of the development of Addison's disease. Results obtained in a comparative study do not show significant systematic differences compared to an anti-21 hydroxylase antibodies radioimmunoassay.

ANTI-ADRENAL CORTEX ANTIBODIES (AACA)

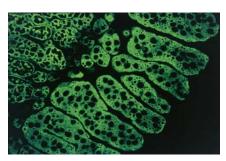
44574 IFA Slide Box, 12 slides x 4 wells

Monkey Adrenal

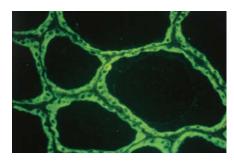
AUTOIMMUNE THYROIDITIS

Antibodies to human thyroid peroxidase (Anti-TPO) are present typically in patients with Hashimoto's disease (90-100% of the patients), primary hypothyroidism or myxedema (80%), Grave's disease (50-80%), type I diabetes mellitus (40%) and pregnant women (14%). They are also detected, together with anti-Tg antibodies, in other diseases: endemic goiter, subacute thyroiditis, Addison's disease, polyendocrine autoimmunopathies and in members of families prone to organ specific autoimmunity. Nevertheless, they can be also present in a 5-20% of healthy individuals.

Anti Thyroglobulin (Anti-Tg) antibodies are present typically in patients with Hashimoto's disease (80-90% of the patients), primary myxedema (80%), Grave's disease (50-70%), type I diabetes mellitus (40%) and pregnant women (14%). Although elevated anti-Tg antibodies are common in differentiated cancer, but they have no clinical value. They are also detected, together with anti-TPO antibodies, in other diseases: endemic goitrous, subacute thyroiditis, Addison's disease, polyendocrine autoimmunopathies and in members of families prone to organ specific autoimmunity. Nevertheless, they can be also present in a 5-20% of healthy individuals.



Anti-adrenal cortex antibodies Monkey adrenal cortex



Anti-thyroid peroxidase antibodies Monkey thyroid

ANTI-THYROID ANTIBODIES

IFA - Complete kit, 12 slides x 4 wells 44550 IFA - Slide Box, 12 slides x 4 wells 44551

Monkey Thyroid

ANTI-THYROID PEROXIDASE ANTIBODIES (TPO)

44795 ELISA kit, 96 T.

Recombinant human antigen

ANTI-THYROGLOBULIN ANTIBODIES (Tg)

44796 ELISA kit, 96 T.

Highly purified human antigen

DIABETES MELLITUS

Indirect immmunofluorescence assay is the conventional method for the determination of anti-islet cell antibodies (AICA). Islet cells antibodies (AICA) are strongly associated with insulin-dependent diabetes mellitus. Results obtained in a comparative study with anti-GAD and anti-IA2 antibodies detection tests showed a good concordance.

INSULIN

Autoantibodies against insulin are present in patients with type I diabetes along with other autoantibodies (mainly, anti-glutamic acid decarboxylase 65, anti-tyrosine phosphatase IA 2 and cytoplasmic islet cell antibodies), but anti-insulin antibodies are usually the first to appear. Anti-insulin antibodies are detectable in 50-70% of children at the onset of type I diabetes and only 20-30% in older patients.

ANTI-ISLET CELLS ANTIBODIES

44609 IFA - Complete kit, 12 slides x 4 wells

Controls not included

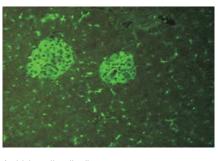
44572 IFA - Slide Box, 12 slides x 4 wells

Monkey Pancreas

ANTI-INSULIN ANTIBODIES

44873 ELISA KIT 96 T

Mixture of recombinant and purified insulin



Anti-islet cell antibodies Monkey pancreas