



## IMMUNOLOGY TESTS

### Non-Organic Autoantibodies - Anti-nuclear Antibodies

**Anti-ds DNA** Antibodies against Double Strain DNA

**Anti-ENA** (Sm + RNP ++ SSA + SSB + Jo1 + Scl-70)

**Anti-ENA** (Sm + RNP + SSA + SSB + Jo1 + Scl-70 + centromere)

**Anti-ss DNA** Antibodies against single-stranded DNA

**Ro, SSA** Antibodies against SSA (Ro) IgG (anti-SSA, anti-Ro)

**La, SSB** Antibodies against SSB (La) IgG (anti-SSB, anti-La)

**Scl-70** IgG antibodies against scleroderma (anti-Scl70 IgG)

**Jo1** Antibodies to Jo1 IgG (anti-Jo1)

**Sm** Antibodies to Sm IgG (anti-SM IgG)

**RNP** Antibodies U1RNP IgG (anti-RNP IgG)

**Le-test** n-DNA antibodies (Le-test)

**Centromere IgG antibodies** (ACA IgG)

**Anti-ds DNA** Double-stranded DNA antibodies (CLIA method)

**Antibodies to Histones**

**LE Cells**

## **Anti-PM-Scl IgG**

|                      |                                    |
|----------------------|------------------------------------|
| <b>ANA</b>           | Antinuclear IgG antibodies         |
| <b>ANA IgM</b>       | Antinuclear IgM antibodies         |
| <b>ANA PROFILE 3</b> | Antibodies against 15 IgG antigens |

## **Non-organ-specific autoantibodies : Anti-cytoplasmic antibodies**

|                |   |
|----------------|---|
| <b>ASCA</b>    | IgA Antibodies against <i>Saccharomyces cerevisiae</i> IgA            |
| <b>ASCA</b>    | IgG Antibodies against <i>Saccharomyces cerevisiae</i> IgG            |
| <b>LKM</b>     | Antibodies against microsomal Liver and Kidney IgG (LKM 1,2,3 IgG)    |
| <b>SLA</b>     | Autoantibodies against soluble liver or pancreatic liver IgG antigens |
| <b>C-ANCA</b>  | Anti-Neutrophilic Cytoplasmic AutoGIs (C-ANCA)                        |
| <b>P-ANCA</b>  | Anti-Neutrophilic Cytoplasmic Cytoplasmic IgG (P-ANCA)                |
| <b>APCA</b>    | Antibodies against stomach wall IgG cells                             |
| <b>LC1</b>     | Autoantibodies to liver IgG type I IgG cytosols                       |
| <b>PR3</b>     | Proteinase Antibodies 3   |
| <b>MPO</b>     | Antibodies against Myeloperoxidase                                    |
| <b>AMA</b>     | Antimitochondrial IgG Antibodies                                      |
| <b>AMA IgM</b> | Antimitochondrial IgM Antibodies                                      |

### **Antimitochondrial M2 IgG Antibodies**

### **Antimitochondrial M5 IgG Antibodies**

### **Antimitochondrial M6 IgG Antibodies**

|             |   |
|-------------|---|
| <b>ASMA</b> | Antibodies against IgG smooth muscle fibers |
|-------------|---|

**RIBA** Ribosomal antibodies to protein p IgG

**ARA** Reticulin IgA Antibodies (ARA)

### **Non-organ-specific autoantibodies : Celiac Antibodies**

**Anti-DGP IgA** Antibodies against deamidated gliadin IgA peptides

**Anti-DGP IgG** Antibodies against deamidated gliadin IgG peptides

**Anti-DGP IgM** Antibodies against deamidated gliadin IgM peptides

**t TG IgA** Antibodies against Tissue Transglutaminase IgA

**t TG IgG** Antibodies against Tissue Transglutaminase IgG

**EMA IgA** Antibodies against intramuscular IgA

**EMA IgG** Antibodies against intramuscular IgG

**ARA** Reticulin Antibodies IgA

### **Inflammatory bowel disease**

**Stool calprotectin**

**Stool lactoferrin**

### **Non-organ-specific autoantibodies : Antibodies against Cardiolipin**

**Phosphatidylinositol IgG antibodies**

**Phosphatidylinositol IgM antibodies**

**Phosphatidylcholine antibodies in total**

**Phosphatidylcholine IgG antibodies**

**Phosphatidylcholine IgM antibodies**

**Ethanolamine Total Antibodies**

**$\beta$ 2 -GP1 IgA**  $\beta$ 2-Glycoprotein 1 IgA antibodies

**$\beta$ 2 -GP1 IgG**  $\beta$ 2-Glycoprotein 1 IgG antibodies

**$\beta$ 2 -GP1 IgM**  $\beta$ 2-Glycoprotein 1 IgM antibodies

**$\alpha$  CL IgA** Cardiolipin IgA antibodies

**$\alpha$  CL IgG** Cardiolipin IgG antibodies

**$\alpha$  CL IgM** Cardiolipin IgM antibodies

**Ap IgA** Phosphatidolserine IgA antibodies

**Ap IgG** Phosphatidolserine IgG antibodies

**Ap IgM** Phosphatidolserine IgM antibodies

## **Non-organ-specific autoantibodies : Rheumatic Factors**

**Anti-CCP2 IgG** Citrulline Cyclic Peptide 2 IgG antibodies

**RF IgA** Rheumatoid Factor IgA

**RF IgM** Rheumatoid Factor IgM

**RF** Rheumatoid Agent

## **Non-organ-specific autoantibodies : Cold Autoantibodies**

**Cryo Cryoglobulins**

**Cold agglutinins**

### **Organ Specific Autoantibodies**

**CASTLE** Endogenous Factor (IF) IgG Antibodies (Intrinsic Factor)

**APCA** Antibodies against stomach wall IgG cells

**GBM** Basic Membrane IgG Antibodies (anti-GBM IgG or ABMA)

**GAD** Anti-Glutamic acid decarboxylase antibodies (anti-GAD)

**IAA** Antibodies to Insulin IgG (IAA IgG)

**ICA IgA** Antisacid Antibodies (ICA IgG)

**Anti-thyroid Antibodies**( anti-Tg, anti-TPO, anti-M)

**TSI** TSH receptor autoantibodies

### **Ethanolamine Total Antibodies**

### **Complement**

**C1INH** C1 Esterase Inhibitor (Antigen)

**CH50** Total supplement (CH50)

**C1q** Complement ingredient C1q (activity)

**C2** Complement ingredient C2 (activity)

**C3** Complement ingredient

**C4** Complement ingredient

## **Food Intolerance Tests and Allergy**

**Food Intolerance test (Panel 90 Foods IgG Screen)**

**Specific immunoglobulin IgG4 (against allergens)**

**IgG-specific immunoglobulin (against allergens)**

**IgE-specific immunoglobulin (Rast)**

**TPS Total Serum Tryptase**

## **Examinations Related to Common Viruses and Infectious Factors**

### **TORCH PANEL:**

**Avidity Toxo** Determining the degree of relevance of Toxo (Avidity Toxo)

**Avidity CMV** Determining the degree of relevance of CMV (Avidity CMV)

**HSV II IgG** Herpes II IgG antibodies

**HSV II IgM** Herpes II IgM antibodies

**HSV I IgG** Herpes I IgG antibodies

**HSV I IgM** Herpes I IgM antibodies

**HSV 6 IgG** Herpes 6 IgG antibodies

**CMV IgG** Cytomegalovirus IgG antibodies

**CMV IgM** Cytomegalovirus IgM antibodies

**Toxo IgA** Toxoplasma IgA antibodies

**Toxo IgG** Toxoplasma IgG antibodies

**Toxo IgM** Toxoplasma IgM antibodies

**Detection of Cytomegalovirus (Herpes 5) DNA by PCR**

**Rubella RNA detection by PCR (Rubella RNA)**

## **Determination of the degree of relevance of Rubella (Avidity Rubella)**

**Rubella IgG antibodies**

**Rubella IgM antibodies**

## **Infectious mononucleosis**

**EBV IgM**      Antibodies to IgM Viral Capsule (VCA IgM)

**EBV IgG**      Antibodies to IgG capsule virus (VCA IgG)

**EBNA**        Antibodies to Nuclear Antigen (EBNA-1 IgG)

**EA-D**         Antibodies against early IgG antigen (Epstein Barr EA-D-IgG)

**Multiparametric immunoassay for the detection of IgG antibodies against capsid antigen, nuclear antigens and early EBV antigens**

**Epstein Barr virus (Herpes 4) DNA detection**

**Mono test**

## **Chickenpox - Measles - Mumps**

**VZV IgG** Antibodies Against Chickenpox - Herpes Zoster IgG (Varicella zoster)

**VZV IgM** Antibodies against Chickenpox - Herpes Zoster IgM (Varicella zoster)

**Antibodies against Mumps / Parotitis IgG**

**Antibodies against Mumps / Parotitis IgM**



**Antibodies against Measles IgG**

**Antibodies against Measles IgM**

**HIV**

**HIV HIV I, II antigen - antibody (HIV I, II Ag / Ab Combo)**

**HTLV**

HTLV Antibodies to HTLV type I & II

**ADENOVIRUS**

Antibodies to Adenovirus IgG

Antibodies against Adenovirus IgM

Adenovirus in the stool

**Respiratory syncytial virus**

RSV IgG Respiratory syncytial virus IgG antibodies

RSV IgM Antibodies against Respiratory Syndrome

## **Amoeba**

Total antibodies against Histolytic Amoeba

## **Aspergillus**

Antibodies against Aspergillus fumigates IgA

Antibodies against Aspergillus fumigates IgG

Antibodies against Aspergillus fumigates IgM

## **Brucella**

Wright Serum reaction Wright

Antibodies against Brucella IgA species

Antibodies against Brucella IgG species

Antibodies against Brucella IgM species

Rose - Bengal

Wright vs. Coombs

## **Echo viruses**

Antibodies against Echo 4, 6, 11, 30 IgG viruses

Antibodies against Echo 4, 6, 11, 30 IgM viruses

## **Influenza and Parainfluenza**

Antibodies against IgG parainfluenza virus

Antibodies to IgA parainfluenza virus

Antibodies against Influenza A virus IgG

Antibodies against Influenza A virus IgM

Antibodies against Influenza B virus IgG

Antibodies against Influenza B virus IgM

## **Helicobacter pylori**

Antibodies against Helicobacter pylori IgA (Helicobacter pylori IgA)

Antibodies against Helicobacter pylori IgG (Helicobacter pylori IgG)

Helicobacter pylori IgM antibodies to Helicobacter pylori IgM

## **Echinococcus**

Antibodies against Echinococcus granulosus & multilocularis IgG

Antibodies against Echinococcus granulosus & multilocularis IgM

## **Coxsackie viruses**

Antibodies to Coxsackie B1, B2, B3, B4, B5, B6 viruses

## **West Nile virus**

West Nile virus IgG (WNV) antibodies

West Nile IgM (WNV) antibodies to the virus

West Nile virus RNA detection by PCR

## **Legionella**

Antibodies against Legionella pneumophila (serotypes 1, 2, 3, 4, 5, 6, 8)

## **Leishmania**

Total antibodies against Leishmania donovani

## **Leptospira**

Antibodies against leptospira IgG interrogans

Antibodies against leptospira IgM interrogans

## **Listeria**

Antibodies against Listeria 1/2 a and 4b IgG

Antibodies against Listeria 1/2 a and 4b IgM

Listler antibodies (1 + 4b)

## **Bordetella**

Antibodies against Bordetella pertussis IgG (Bordetella pertussis)

Antibodies against Bordetella pertussis IgM (Bordetella pertussis)

## **Borrelia**

Borrelia IgG antibodies (Lyme disease antibodies)

Borrelia IgM antibodies (Lyme disease antibodies)

## **Mycobacterium tuberculosis (MTB)**

QuantiFERON - TB Gold Plus (QFT - Plus)

Detection of Mycobacterium tuberculosis (M. Tuberculosis, MTB) DNA and atypical mycobacteria

Immediate search for acid-resistant bacteria

Culture of mycobacteria ( $\beta$  - Koch)

## **Parvovirus**

Antibodies against Parvovirus B19 IgG

Antibodies against Parvovirus B19 IgM

## **Rickettsia**

Antibodies against Rickettsia conori IgG (Mediterranean spotted fever)

Antibodies against Rickettsia conori IgM (Mediterranean spotted fever)

Antibodies against Rickettsia mooseri IgG

Antibodies against Rickettsia mooseri IgM

Antibodies against Coxiella burnetti IgG (Q fever antibody)

Antibodies against Coxiella burnetti IgM (Q fever antibody)

Antibodies against Bartonella quintana IgG

Antibodies against Bartonella quintana IgM

Antibodies against Bartonella henselae IgG

Antibodies against Bartonella henselae IgM

## **Salmonella**

Stool culture (for common, Salmonella, Shigella)

Identification of Salmonella with antisera T, A, B, C, Vi

Serum reaction WIDAL

## **Streptococcus**

Anti - ASH Antibodies against Hyaluronidase

ADNase B Antibodies against Streptococcus (Anti - Dnase B)

ASTO Streptococcus Antibodies (Antistreptolysin - O)

Cultures - antibiogram

Strep - test A

## **Treponema**

IgG antibodies against treponema (Elisa method)

IgM antibodies against treponema (Elisa method)

IgG antibodies against treponema (method IF)

IgM antibodies against treponema (method IF)

Total treponema antibodies (method IF)

TPHA Macular tremor immobilization test

VDRL General Disease Research Laboratory test

RPR Rapid Plasma Reagin

## **YERSINIA**

YERSINIA ENTEROCOLITICA & PSEUDOTUBERCULOSIS IgG, IgA

Antibodies against Yersinia Enterocolitica IgA

Antibodies against Yersinia Enterocolitica IgG

Antibodies against Yersinia Enterocolitica IgM

Culture for Yersinia Enterocolitica

## **Mycoplasma**

DNA detection Mycoplasma hominis, Ureaplasma parvum & urealyticum,  
Mycoplasma genitalium

Antibodies against Ureaplasma urealyticum IgG

Antibodies against Ureaplasma urealyticum IgM

Antibodies against Mycoplasma pneumoniae IgG

Antibodies against Pneumonia Mycoplasma IgM

Antibodies against Mycoplasma hominis IgG

Antibodies against Mycoplasma hominis IgM

Culture - Mycoplasma Identification

## **Chlamydia**



Antibodies against IgA trachoma chlamydia

Antibodies against IgG trachoma chlamydia

Antibodies against IgM trachoma chlamydia

Antibodies against IgA pneumonia chlamydia

Antibodies against IgG pneumonia chlamydia

Antibodies against IgM pneumonia chlamydia

Antibodies against IgG spray chlamydia

Antibodies against IgM spray chlamydia

Tracheal chlamydia DNA detection

Chlamydia antigen (immunochromatography)

Chlamydia antigen (direct immunofluorescence)

## **TOXOCARA**

Antibodies against Toxocara canis IgG

## **Tests for Antibodies - Antigens of Viral Infections of the Liver**

### **Hepatitis A**

HAV IgG Antibodies against Hepatitis A IgG

HAV IgM Antibodies against Hepatitis A IgM

## **Hepatitis B**

anti-c IgM

anti-c

anti-s

HbsAg

anti-e

HbeAg

HBV - DNA

## **Hepatitis C**

HCV AB - AG Hepatitis C antigen - antibody

anti - HCV Antibodies against Hepatitis C

Molecular determination of the Hepatitis C virus Genotype

Hepatitis C Virus Recombinant Immunoblot Assay (HCV RIBA)

HCV - RNA

## **Hepatitis D**

anti-HDV-IgM Antibodies against Hepatitis D IgM

anti-HDV Antibodies against Hepatitis D in general

## **Hepatitis E**

anti-HEV Total antibodies against Hepatitis E.

## **CSF TESTS - Neurological Antibodies**

CSF protein electrophoresis

Albumin (CSF albums)

Total CSF Proteins

Chlorides (CL) ENY

Lactic Acid (L - Lac) ENY

A2 - Macroglobulin CSF

Urea nitrogen (BUN) ENY

Glucose (GLC) ENY

Potassium (K-) ENY

Creatinine CSF

Sodium (Na) ENY

Uric Acid CSF

SACE ENY

## **CSF immunoglobulins**

IgA ENY

IgG ENY

IgM ENY

### **CSF virological test**

Antibodies against Chickenpox - Shingles (VZV) IgG ENY

Antibodies against Borrelia burgdorferi IgG ENY

Antibodies against Brucella IgG ENY

Mycoplasma Pneumonia IgG ENY antibodies

Antibodies to Herpes I IgG ENY

Antibodies against Herpes II IgG ENY

Antibodies against CMV IgG ENY

Antibodies against EBV IgG ENY

ENG oligoclonal bands (complete panel)