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Auto-immune disorders affect over 7% of the population. They are the 3rd largest cause of morbidity in industrialised countries (after cardiovascular diseases and cancer) and can affect people of any age.

Auto-immune disorders are due to malfunctions of the immune system which result in the manufacture of antibodies, and in some cases, lymphocytes, that act against the body's own cells. As a result, each and every organ can be affected. There are multiple factors accounting for the origin of auto-immune disorders with the involvement of genetic, endogenetic and environmental factors.



Diagnosis of an auto-immune disorder is based mainly on: clinical symptoms, immunological diagnosis and in some cases, genetic diagnosis. These debilitating disorders are often severe and at times life-threatening. Often affecting young subjects, hence the importance of correctly screening for auto-antibodies that are vital for diagnosis in the presence of relevant clinical signs.

The auto-immunity serology tests performed by Eurofins Biomnis can assist you in making a quick and reliable diagnosis to improve the treatment of your patients.

Key

Auto-antibodies with a high diagnostic value are shown in blue.

HLA genotyping can be a diagnostic support for several auto-immune diseases (for any additional information, please consult our website **www.biomnis.com**).

Pathology	Antibody 🔻	
Sys	temic disorders	1 C
Disseminated erythematous lupus (DEL)	Anti-nuclear antibodies Naive anti-DNA Ab Anti-nucleosome Ab Anti-ENA Ab (Sm, RNP, SSA) Anti-ribosomes Ab Anti-PCNA Ab Anti-C1q Ab Circulating immune complexes	
Drug-induced lupus	Anti-nuclear antibodies Anti-histones Ab	
Gougerot-Sjögren Syndrome	Anti-nuclear antibodies Anti-SSA/Ro 60, SSB Ab Anti-SSA/Ro 52 Ab = anti-TRIM 21	
Mixed connectivity	Anti-nuclear antibodies Anti-RNP Ab	2
Myositis, Anti-synthetase syndrome	Anti-Jo1 Ab Anti-PL7 Ab, PL12, Ku, Mi2 Anti-SRP Ab Anti-Pm-Scl Ab Anti-OJ Ab, EJ, TIF/p155/140, MDA-5/CADM 140, NXP2, SAE, HMG-coA reductase	~
Exclusion diagnosis	DFS 70	
Diffuse systemic scleroderma	Anti-nucleolar Ab Anti-ScI70 Ab = topo isomerase Anti-fibrillarin Ab Anti-RNA polymerase III Ab	
Overlapping syndrome	Anti-Pm-Scl Ab Anti-Ku Ab	
imited systemic scleroderma formerly CREST syndrome)	Anti-centromere Ab (A/B) Anti-Th/To Ab Anti-NOR Ab	
Antiphospholipid syndrome	Anti-β2 glycoprotein 1 lgG/lgM Ab Anti-cardiolipin lgG/lgM Lupus anticoagulant Anti-phosphatidylethanolamine lgG/lgM Ab Anti-phosphatidylserine lgG Ab Anti-prothrombin lgG Ab Anti-annexin V lgG Ab	
Rheumatoid polyarthritis	Anti-cyclic citrullinated peptide Ab (anti-CCP) Rheumatoid factors IgM Rheumatoid factors IgA	



Antibody

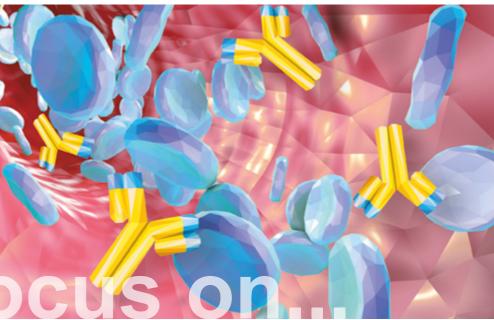
	Liver
Primary biliary cirrhosis	Anti-mitochondrial type 2 Ab, pyruvate deshydrogenase complex = PDH Anti-gp210 Ab (nuclear pores) Anti-SP100 Ab (nuclear dots)
e 1 auto-immune hepatitis	Anti-smooth muscle Ab, type anti-actin Anti-soluble liver antigen Ab = SLA/LP
e 2 auto-immune hepatitis	Endoplasmic anti-reticulum Ab = liver and kidney anti-microsomes = anti-LKM 1) anti-cytochrome-like P450 II D6 Anti-cytosol Ab = anti-LC1
nary sclerosing cholangitis	Anti-neutrophil cytoplasmic antibodies, type X or p-ANCA
	Stomach
Type A gastritic anaemia (Biermer's anaemia)	Intrinsic factor Ab Anti-parietal cell antibodies Anti H+K+ ATPase Ab
	Pancreas
Insulin-dependent diabetes	Anti-islets of Langerhans Ab Anti-glutamate-decarboxylase Ab = GAD Anti-tyrosine-phosphatase Ab = IA2 Anti-ZnT8 Ab Anti-Insulin Ab
o-immune pancreatitis	Anti-lactoferrin and carbonic anhydrase Ab
	Intestines
Coeliac disease = gluten intolerance	Anti-transglutaminase IgA/IgG antibodies Anti-endomysium IgA/IgG Ab Anti-gliadin IgA/IgG Ab
hn's disease	Anti-saccharomyces cerevisiae IgA/IgG Ab = ASCA Exocrine anti-pancreas Ab
emorrhagic rectocolitis	Anti-neutrophil cytoplasmic antibodies, type X or p-ANCA
	Thyroid
Graves' disease	Anti-TSH receptor Ab = TSI = LATS = TRAK

Hashimoto thyroiditis, primary myxoedema	Anti-thyroperoxydase Ab = TPO Anti-thyroglobulin Ab = Tg

In the confused with anti-epidemal basement membrane and intracellular substance antibiode(s) Anti-epidemal basement membrane Anti-edisemplein Ab 1 and 3 In the confused with anti-proteinase 3 = PR3 Anti-epidemal basement membrane At An	Pathology	Antibody 🔻	Pathology 🗸	Antibody 🔻
Image: Control of the confused with anti-epidermal basement membrane and intracellular substance antibodies desmosomes Image: Control of the confused with anti-epidermal basement membrane and intracellular substance antibodies Anti-epidermal basement membrane At anti-designed to be conglormular basement membrane At anti-density glorenular basement membrane At Atti-BP 230 Ab Idiopatic extra-membrane and Strausd Bideseese), ktra- capillary glomerulonephritis, etc. Anti-PLA2R Ab Idiopatic extra-membrane and glord antibodies Anti-PLA2R Ab Addison's disease Anti-atrona b Anti-destropatic perphrigus Anti-encopsium igA/IGS atti- Anti-endomysium igA/IGS atti- Anti-internationaligbionnis.com		Kidney/Lung		Skin
Polyangitis (also known as Wegener's granulomatosis) anti-proteinase 3 = PR3 but dots Anti-per analomatosis) anti-neutrophil cytoplasmic antibody (or ANCA), type anti-myeloperoxydase = MPO Gestational pemphigoid Anti-Att BP 180 Ab Anti-BP 280 Ab Delyangitis (also known as microscopic polyangitis with polyangitis (strauss diseases), extra- cepliary glomerulonephritis Anti-neutrophil cytoplasmic antibody (or ANCA), type anti-myeloperoxydase = MPO Bullous epidermolysis Anti-Att antibodies (not to be con glomerulonephritis Addison's disease Anti-PLA2R Ab Bullous epidermolysis Anti-Atternal gland antibodies Anti-Attendomysiun [JA/IGG Ab Addison's disease Anti-PLA2R Ab Subacute cutaneous lupus Anti-SSA/Ro 60 Ab Myasthenia Anti-Vrains/Testiclos Anti-Attivory lase Ab Anti-testin and ba Anti-detine anti-receptor antibodies Anti-Attione anti-receptor antibodies Anti-Attione anti-receptor antibodies Anti-MuSK Ab Anti-testin duscles Ab Anti-testin duscles Ab Anti-testin duscles Ab Anti-dolage Gated Calcium Channel (VGCC) antibodies Eve Retinopathies Stiff-man syndrome Anti-polasium channel Ab (VGKC), Lgi1 and Caser's yndrome Anti-polasice JG/IgM Ab (CM1, GM2, GD18, GD1	Goodpasture syndrome	(not to be confused with anti-epidermal basement	Pemphigus	
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	Limbic encephalitis	anti-NMDAr Ab, AMPAr, VGKC, GAD, neurones		//////5

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Autoantibodies in the diagnosis and follow-up of auto-immune diseases