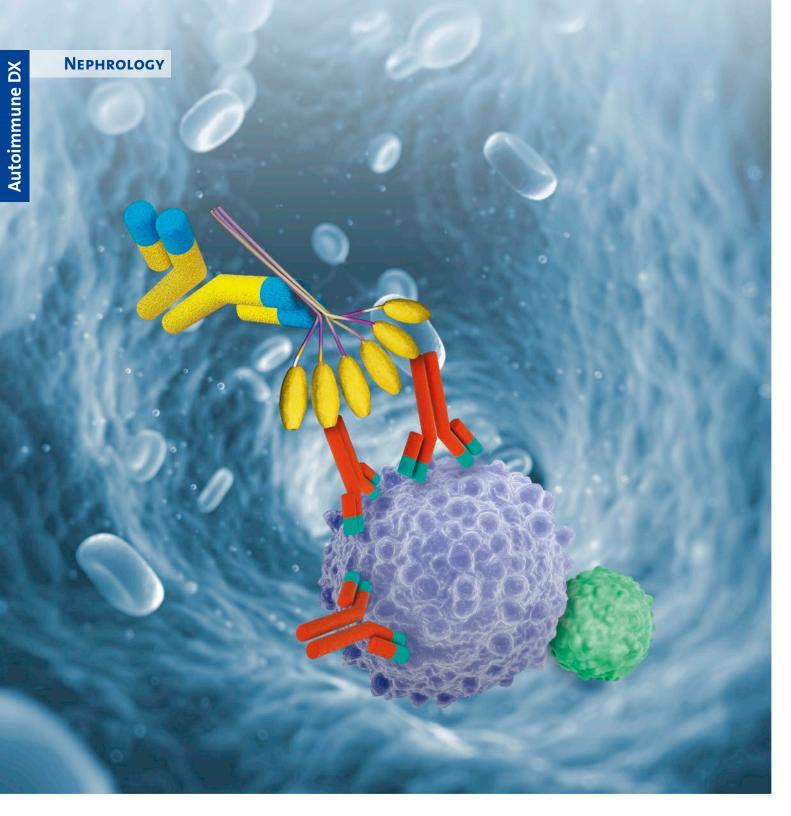
Circulating Immune Complexes

Monitoring of Kidney Function in Inflammatory Diseases







Fast and Reliable Results

Circulating Immune Complexes (CIC):

Leading to complement activation

Complement is part of the innate immune system. Its major function is recognition and elimination of pathogens. Complement activity plays also an important role in the pathogenesis of systemic autoimmune diseases. It is activated amongst others by CIC in the blood stream. In the process of complement activation split products like C3d can be detected in patients suffering lupus nephritis² or in patients with cutaneous systemic scleroderma^{3,5}. Patients with systemic autoimmune diseases might also develop antibodies targeting components of the complement cascades. One of the important components that is been targeted is C1q.^{4,5} Anti-C1q autoantibodies are indicative for lupus nephritis^{6,7,8} but can also be found in other conditions and inflammatory diseases.^{2,9,10}

Frequency of C1q autoanti	bodies found in vario	ous conditions.	
Hypocomplementemic urticarial vascu	ulitis syndrome 100 %	Polyarteitis nodosa	27 %
MTCD	94 %	Polychondritis	17 %
Felty's syndrome	76 %	Sjögren's syndrome	13 %
HCV	26-38 %	Glomerulonephritis	3-50 %
Rheumatoid vasculitis	31 %	HIV	13 %
Rheumatoid arthritis	30 %	Healthy individuals	Children 0−3 %
SLE	30-100 %		Adults 4-18%

HUMAN Autoimmune diagnostic assays combine technology & science

- > C1q molecules are bound to the surface of ELISA using patented technologies
- > Ensuring the preservation of epitopes for the Anti-C1q-Antibodies ELISA
- > Ensuring the biological activity for the CIC-IgG ELISA
- > Special sample dilution buffer ensures the exclusive detection C1q autoantibodies
- > Combing CIC-IgG & C3d-CIC ELISA technologies helps to distinguish between different complement activation pathways*

The IMTEC Product Line **ELISA**

Cat. No. **IMTEC-CIC Screen (cut-off)** *96 Tests* ITC59030 ELISA for the Detection of C1q Binding Cirgulating Immune Complexes (IgG/IgM)

IMTEC-CIC IgG 96 Tests ITC59031 **ELISA for the Quantitative Determination**

of C1q Binding Circulating Immune Complexes (IgG)

IMTEC-Anti-C1q-Antibodies 96 Tests ITC59033

ELISA for the Quantitative Determination of free C1q autoantibodies, indicative for lupus nephritis (IgG) IMTEC-C3d-CIC

96 Tests ITC59032 **ELISA for the Quantitative Determination**

of Circulating C3d-binding Immune Complexes (IgG)

96 Tests ITC59035 **IMTEC-Complement Activity**

ELISA for the Ouantitative Determination

of complement activity (IgG)

1 Chen et al., 2009; 2 Manzi et al., 1996; 3 Senaldi et al., 1989; 4 Botto and Walport 2002; 5 Braun et al., 2007; 6 Sinico et al., 2005; 7 Moura et al., 2009; 8 Tan et al., 2013; 9 Potlukova and Kralikova 2007; 10 Saadoun et al., 2006





Cat. No.

^{*} Classical & Alternative Complement Activation Pathway