Mouse Anti-DNA Antibody ELISAs

High levels of serum anti-deoxyribonucleic acid (DNA) antibodies are observed in most patients with systemic lupus erythematosus (SLE) (1, 2), and are involved in the immunopathogenesis of renal injury (3). Evaluating immunoglobulin isotypes against individual DNA types may indicate the stage and prognosis of SLE. For example, anti-single stranded DNA (ssDNA) IgG antibody levels indicate the stage of SLE, anti-double stranded DNA (dsDNA) IgG antibody levels correlate with the severity of SLE, and anti-dsDNA IgM antibody levels provide a useful baseline for lupus nephritis in SLE patients (4).

In the spontaneous NZB/W F1 lupus mouse models, anti-dsDNA antibody isotype class switching from IgM to IgG is associated with renal failure (5). Nonetheless, in artificial pristane-induced BALB/c lupus models, anti-ssDNA IgM antibodies solely contribute to SLE induction (6-8). Chondrex, Inc. provides assay kits to study the diverse contributions of anti-DNA antibodies in mouse models of human SLE. For more information about these products, please contact Chondrex, Inc. at support@chondrex.com.

Mouse Anti-DNA Antibody ELISA Kits

Product	Indication	Catalog #
Anti-dsDNA IgG Antibody Assay Kit	Severity of SLE/ Potential renal failure	3031
Anti-ssDNA IgG Antibody Assay Kit	Early stage SLE	3041
Anti-dsDNA IgM Antibody Assay Kit	Disease Baseline	3032
Anti-ssDNA IgM Antibody Assay Kit	Early stage SLE	3042

References

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