



7880
Accredited to
ISO 15189:2012

DNA Antibody

Synonyms

Double stranded DNA antibody, dsDNA, DNA by immunoassay, Phadia DNA, DNA IgG antibodies

Clinical Indication

dsDNA antibodies are associated with SLE.

Monitoring of known SLE patients. The Crithidia immunofluorescence test is used for diagnostic purposes when the ANA or CTD screen is positive [while this dsDNA antibody by Phadia immunoassay is used for monitoring.](#)

Part of Profile / See Also

ANA, CTD screen, DNA Antibody (Crithidia)

Request Form

Combined Pathology manual Blood form or ICE request

Availability / Frequency of Analysis

Daily Monday-Friday

Urgent same/next day analysis must be discussed with laboratory (01268 968278) and samples must be in the lab by 12pm.

Turnaround Time

4 working days

Patient Preparation

None required

Sample Requirements

[*Please note a separate sample is required when Immunology tests are requested in addition to Biochemistry tests*](#)

Specimen Type

Serum

Volume

2 ml

Container



Yellow top (SST) tube



Paediatric Yellow top (SST) tube

Reference Range & Units

Negative: <10 IU/ml

Equivocal: 10-15 IU/ml

Positive: >15 IU/ml

Interferences

Lipaemic, haemolysed or microbially contaminated samples should not be used

Interpretation & Clinical

Decision Value (if applicable)

Negative: Active SLE is unlikely but the result must be interpreted with the clinical findings

Positive: Consistent with active SLE but must be interpreted with the clinical findings. More likely to be consistent with SLE if the Crithidia test is also positive.

There is evidence which suggests that circulating DNA/anti-DNA immune complexes play a role in the pathogenesis of SLE (particularly renal disease).

Low levels of anti-dsDNA antibodies have been reported in normal, apparently healthy individuals in the absence of the disease. Also, not all patients with SLE have antibodies to DNA. Other ANAs may be present e.g. Sm antibodies

dsDNA antibodies may also be seen in autoimmune chronic active hepatitis and in rheumatoid arthritis treated with sulphasalazine.

References

Isenberg DA, et al. Fifty years of anti-dsDNA antibodies: are we approaching journey's end? *Rheumatology*. 2007. 46(7):1052-1056

Kavanagh AF, Solomon DH. Guidelines for immunologic laboratory testing in the rheumatic diseases: anti-DNA antibody tests. *Arthritis and rheumatism*. 2002. 47(5): 546-555.

Test code

DNAA

Lab Handling

Aliquot and store at 4-8°C prior to testing and at -20°C or below for up to 1 month after receipt.