



User's Manual

Histone-C-Ab ELISA Kit

REF DEIABL345

Σ 96T

RUO

This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

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PRODUCT INFORMATION

Intended Use

Histone-C-Ab ELISA is a solid phase enzyme immunoassay with human native histones H1, H2A, H2B, H3, H4 isolated from the eukaryotic celline HeLa for the quantitative and qualitative detection of antibodies against histones in human serum.

The assay is a tool in the differential diagnosis of systemic lupus erythematosus (SLE).

General Description

Histone-C-Ab ELISA is a solid phase enzyme immunoassay with human native histones H1, H2A, H2B, H3, H4 isolated from the eukaryotic celline HeLa for the quantitative detection of antibodies against histones in human serum. The assay is a tool in the differential diagnosis of systemic lupus erythematosus (SLE). Histones are small basic proteins of 11 to 21 kDa constituting a set of interacting proteins that organize and constrain the topology of DNA in most eukaryotic cells into a particle called nucleosome. In this particle the four histones H2A, H2B, H3 and H4 form an octamer (H2A, H2B, H3, H4)₂ around which 146 bp of dsDNA is wrapped by 1 3/4 turns. Histone H1 interacts with the nucleosome and together with linked-DNA connects neighboring nucleosomes. Antibodies against histones occur in patients with SLE with a frequency of 50 %, during active phases of SLE with an even higher frequency (80%). They are not specific for SLE, especially when not associated with anti-dsDNA antibodies. They are also found in other inflammatory rheumatoid diseases, like rheumatoid arthritis (low titers and mainly against H1), or systemic sclerosis and juvenile chronic arthritis. Moreover these antibodies are found in primary biliary cirrhosis (up to 70%) and autoimmune hepatitis (up to 35%), too. Anti-histone antibodies, in the absence of antibodies to dsDNA, do play an important role in the diagnosis of drug-induced LE being found in 95% of cases. These drugs are inducing joint and skin symptoms, as well as the different anti-histone specificities, while never renal manifestations. Anti-histone antibodies in drug-induced LE are temporary and disappear within a few months after withdrawal of the inducing drug.

Storage

2-8°C

Precision

Intra-assay		
Sample No.	Mean (U/ml)	CV (%)
1	102.2	6.7
2	44.9	3.7
3	4.4	0.4

Inter-assay		
Sample No.	Mean (U/ml)	CV (%)
1	208.2	8.7
2	155.6	7.9
3	45.2	7.6

Detection Range

0 - 300 U/mL, cut-off 15 U/mL



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Sensitivity

1.0 U/ml