

Datasheet for ABIN2648251 **Anti-Nuclear Antibody (ANA) ELISA Kit**



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Overview

Quantity:	96 tests
Target:	Anti-Nuclear Antibody (ANA)
Reactivity:	Human
Application:	ELISA

Product Details

Purpose:	Enzyme immunoassay for the determination of IgG antibodies to nuclear and cytoplasmic antigens in human serum and plasma
Brand:	ANAscreen
Sample Type:	Serum, Plasma
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	Frequency distribution of ANA in ANAscreen: 97 unselected human sera from healthy donors were tested. All sera were found negative. This corresponds to a diagnostic specificity of 100%.
Characteristics:	ANAscreen allows the detection of total autoantibodies to nuclear and cytoplasmic antigens in one sample as a summary parameter in the diagnosis of systemic autoimmune disorders. Antigenic combination of complete HeLa nuclei with recombinant proteins and purified native antigens guarantees a maximum of sensitivity and specificity for the ANA detection.
Components:	Microtiter plate Concentrated wash buffer

Product Details

Sample diluent
Conjugate
Substrate
Stop solution
Positive Control
Cut-off Control
Negative Control

Material not included:

- micropipettes
- multi-channel pipette or multi-pipettetrough for multi-channel pipette
- 8-channel wash comb with vacuum pump and wastebottle or microplate washer
- distilled or de-ionized water
- glassware

Target Details

Target: Anti-Nuclear Antibody (ANA)

Alternative Name: ANA (Antinuclear Antibody) ([ANA Products](#))

Target Type: Antibody, Antibody

Background: Systemic autoimmune diseases such as systemic lupus erythematosus, scleroderma, rheumatoid arthritis, Sjögren's syndrome, dermatomyositis, mixed connective tissue disease are characterized by the appearance of a variety of autoantibodies directed against components of the cell nucleus. Although significance and pathological relevance of some auto-antibodies are not completely revealed yet, the detection of auto-antibodies is widely established and plays an important role in the diagnosis of systemic autoimmune diseases.

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Protocol: The ANAScreen ELISA Assay Kit is an enzyme immunoassay for the semi-quantitative determination of IgG antibodies to nuclear and cytoplasmic antigens. Antibodies of the controls and diluted patient samples react with nuclear and cytoplasmic antigens immobilized on the solid phase of microtiter plates. Use of complete HeLa nuclei enriched with recombinant and native antigens guarantees the specific binding of autoimmune antibodies of the specimen under investigation. Following an incubation period of 60 min at room temperature

Application Details

(RT, 18...25°C), unbound sample components are removed by a wash step. The bound IgG antibodies react specifically with anti-human-IgG conjugated to horseradish peroxidase (HRP). Within the incubation period of 30 min at RT, excessive conjugate is separated from the solid-phase immunocomplexes by the following wash step. HRP converts the colorless substrate solution of 3,3',5,5'-tetramethylbenzidine (TMB) added into a blue product. The enzyme reaction is stopped by dispensing an acidic solution into the wells after 15 min at room temperature turning the solution from blue to yellow. The optical density (OD) of the solution at 450 nm is directly proportional to the amount of specific antibodies bound. Patient ratios are calculated by dividing the respective OD of the specimen with the calculated cut-off OD.

Restrictions: For Research Use only

Handling

Storage: 4 °C

Storage Comment: Upon receipt, all components of the ANAScreen have to be kept at 2 - 8 °C, preferably in the original kit box.