

REAADS Anti-Scl-70
ELISA Test Kit

Product #: 10872
(96 well kit)

- **Recombinant protein provides a high degree of specificity**
- **The results are expressed as quantitative values (Unit/mL), enabling changes of anti-Scl-70 to be monitored**
- **Fast test turnaround**
- **Convenient ELISA procedure**

Background

Anti-Scl-70 antibody, one of the anti-ENA (extractable nuclear antigen) antibodies, is seen in the sera of patients with progressive systemic sclerosis (PSS). First discovered by Tan et al. (1975), it was confirmed that the antigen of anti-Scl-70 antibody is identified with topoisomerase I, one of the nuclear enzymes, and is therefore, also called anti-topoisomerase I antibody. The presence of anti-Scl-70 antibody and anti-centromere antibody in the sera of patients is essential for diagnosis of PSS. PSS is classified as two types; diffuse scleroderma and limited scleroderma. The anti-Scl-70 antibodies are observed specifically in the former, and the anti-centromere antibodies are observed specifically in the latter. Therefore, detection of these antibodies is useful for classification of PSS.

The REAADS anti-Scl-70 ELISA is a highly specific and sensitive test for anti-Scl-70 antibody present in the serum.

Procedure

This product utilizes the commonly employed heterogeneous noncompetitive indirect solid-phase method of enzyme-linked immunosorbent assays (ELISA).

Human serum is reacted with antigen coated onto microtiter wells. Antibodies, if present, will react with the immobilized antigen forming stable antigen-antibody complexes. If no antibodies are present, the complexes will not form and the serum components will be washed away. Horseradish peroxidase conjugated goat anti-human antibodies (IgG, IgA and IgM heavy chain specific) are added to bind with the complexes formed in step one. If no complexes are formed in step one, the conjugate will be washed away. Peroxidase substrate solution (TMB) is added to produce a color change when reacted with the complexes formed in steps one and two. After terminating the enzyme reaction by adding stop solution, the color intensity of the reaction is measured photometrically. The color intensity of the reaction depends on the amount of antibody, if present, in the human serum.

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For In Vitro Diagnostic Use

**Each REAADS Anti-Scl-70 ELISA
Test Kit contains the following reagents:**

96 antigen coated microwells in frame	12 x 8 strips
Calibrator-1 (0 U/mL)	1 x 1.5 ml
Calibrator-2 (100 U/mL)	1 x 1.5 ml
Positive Control	1 x 0.2 ml
Negative Control	1 x 0.2 ml
Conjugated Reagent (HRP conjugated goat anti-human immunoglobulins)	1 x 20 ml
Assay Diluent	2 x 50 ml
Wash Concentrate (10x)	1 x 100 ml
Substrate	1 x 20 ml
Stop Solution	1 x 20 ml



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