SHIBAYAGI	Mouse Anti ssDNA ELISA KIT	Research Reagent

Please, read this instruction carefully before assay.

[Merit of the kit]

This assay kit can measure anti-ssDNA antibody,

(1) Quickly (3 hours),
(2) With a small volume of sample (1-5 μl),
(3) Promptly and easily with all reagents provided as solution,
(4) With high reproducibility.

[Reagents]

A:	Mouse ssDNA coated plate	96well(8x12)	x1
B:	Standard Mouse-antibody solution(10000mU/ml)*	100μl	x1
C:	HRP-conjugated anti-mouse IgG	20μl	x1
D:	Chromogenic substrate reagent(TMB)	12ml	x1
E:	Reaction stopper(1M H_2SO_4)	12ml	x1
F:	Buffer solution	60ml	x1
G:	Concentrated washing buffer(10x)	100ml	x1

* The number of units differs among lots.

[Required but not included in the kit]

(1) Micropitette (1-1000μl)

(2) Microplate washing apparatus (microplate washer, shaker, wash bottler, etc.)

(3) Microplate reader

[Preparation of Reagent Solutions]

(1) Washing buffer : Prepare by diluting concentrated washing buffer to 1:10 with distilled water.

(2) HRP-conjugated antibody solution: Prepare by diluting the concentrated

solution to 1:2,000 with assay buffer.

(3) Other reagents can be used undiluted.

(4) Use all the reagent solutions of the Kit after getting back to room temperature.

[Dilution of Assay Samples and Preparation of the Standard Antibody Solution] (We show an example)

(1) Assay samples : Dilute to 1:51, 1:101, 1:201 with the assay buffer.

(2) Standard antibody solutions: Prepare std 7 by mixing 50μl of attached original std solution and 450μl buffer. Then prepare std 6 by mixing 250μl of std 7 and 250μl buffer, and so forth until std 1 by serial dilution.

	Std 7	Std 6	Std 5	Std 4	Std 3	Std 2	Std 1	Std 0
Potency (mU/ml)	1,000	500	250	125	62.5	31.3	15.6	0
Standard solution(μl)	50	250	250	250	250	250	250	0
Assay buffer(μl)	450	250	250	250	250	250	250	250

Please, avoid using NaF-containing blood sampling tube, because fluoride ion is a peroxidase inhibitor, and may reduce the coloration even after washing.

[Assay Procedure]

(1) Wash the assay plate 3 times with the washing buffer by filling the wells with the buffer and discarding. Thereafter, hold the plate upside-down and tap several times on the stacked several sheets of paper towel to remove excess buffer remaining in wells.

(2) Place 100μl of the standard antibody solution or diluted sample to each well.

(3) Shake gently using preferably a microplate shaker.

(4) Stand the plate for 1 hour at room temperature (20-25C) for the reaction.

(5) After the reaction, discard the solution, and rinse the plate 3 times with the washing buffer. Thereafter, hold the plate upside-down and tap several times on the stacked several sheets of paper towel to remove excess buffer remaining in wells.

(6) Pipette 100μl of the HRP-conjugated antibody solution to each well, and shake gently using preferably a microplate shaker.

(7) Stand the plate for 1 hour at room temperature (20-25C) for the reaction.

(8) After the reaction, discard the solution, and rinse the plate 3 times with the washing buffer. Thereafter, hold the plate upside-down and tap several times on the stacked several sheets of paper towel to remove excess buffer remaining in wells.

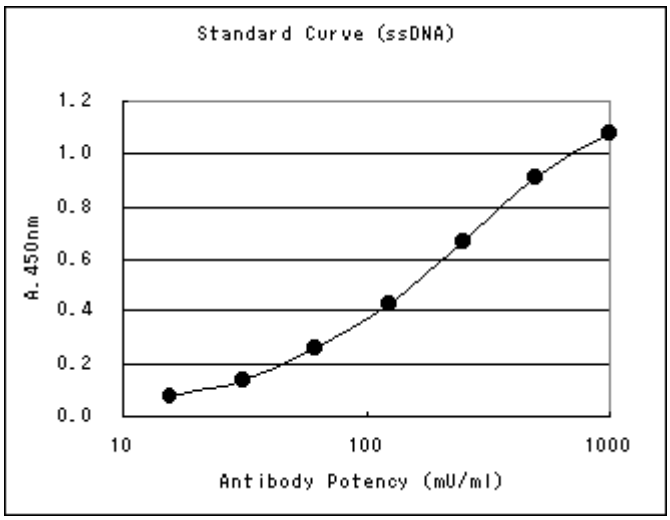
(9) Pipette 100μλ of the chromogenic substrate (TMB) reagent to each well, and shake gently on a microplate shaker.

(10) Stand the plate for 20 minutes at room temperature (20-25C) for the reaction.

(11) Pipette 100μl of the reaction stopper to each well to stop further color development.

(12) Measure absorbance of each well at 450 nm (Sub wavelength, 620nm).

[Standard Curve (an example)]



[Summary of Assay Procedure]

Antigen-coated plate
Washing
| + Standard antibody solution or diluted sample; 100μl
Shaking , Reaction at room temp.(20 - 25C) for 1hr
|
Washing
| + HRP-conjugated antibody; 100μl
Shaking , Reaction at room temp.(20 - 25C) for 1hr
|
Washing
| + Chromogenic substrate (TMB) reagent solution; 100μl
Shaking , Reaction at room temp.(20 - 25C) for 20min
| + Reaction stopper; 100μl
Measurement of absorbance (450nm) (Sub 620nm)

[Assay Validation]

1. Assay range

Absorbance range corresponding to standard concentration 15.6 to 1000mU/ml is 0.05 to 2.5

2. Specificity

As anti-mouse IgG type antibody is labeled with HRP, crossreactivity to IgM is lower than ELISA background.

3. Assay precision

Within assay C.V. (n=30) is 4.6%

4. Reproducibility

Between assay C.V. (n=30, 3days) is 4.9%

Please, read "Statements and Precautions as to Our Kits or Their Components" in a separate page for further information.

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