COSMO BIO CO., LTD.

Amyloid Fluorescent Staining Kit

Cat. No. CSR-SYN02

Updated on March 18th, 2020

※ RIKEN (Japan)'s technology is used in Amyloid Fluorescent Staining Kit

【 I 】Kit Components

Storage: 4℃

● component: This kit can be used up to 100 tests when used as described in below【III】

Component	Size	Quantity	Note
Amyloid fluorescent staining reagent	100 µL	1	Keep in a cool dark place once unpacked.
Nuclear staining reagent	100 µL	1	Use appropriate protective equipment (such as gloves and glasses) when handling. Keep in a cool dark place once unpacked.
Fluorescence enhancer	5 g	1	Use appropriate protective equipment (such as gloves and glasses) when handling. Keep at room temperature.

Required but not provided:

- 50% ethanol
- PBS(-)
- Purified water
- 10% neutral buffered formalin

【II】Preparation of working solutions

- Amyloid fluorescent staining solution: Dilute 200 fold with 50% ethanol (Just before use)
- Nuclear staining solution: Dilute 500 fold with PBS(-) (Just before use)
- Fluorescence enhancer: Into 10 mL purified water, dilute 1g of Fluorescence enhancer, vortex thoroughly (Please prepare necessary amount). Since fluorescence enhancer will not dissolve completely & precipitate, use the supernatant of saturated solution.

【III】How to use the kit

- Below example is for using α -Synuclein Aggregation Assay Kit (Cosmo Bio, cat. no. CSR-SYN01-COS) for 24 well plate size.

1. Assay as described in α -Synuclein Aggregation Assay Kit (Cosmo Bio, cat. no. CSR-SYN01-COS) manual.
2. Remove culture medium, add 0.5 mL 10% Neutral buffered formalin to each well, leave it at least overnight at room temperature to fix cells.
3. Remove formalin solution, add diluted 0.2 mL Amyloid structure fluorescent staining solution to each well, incubate at room temperature for 30 min. with protection from light (still standing).
4. Remove Amyloid structure fluorescent staining solution, add 0.3 mL Fluorescence enhancer solution to each well, incubate at room temperature for 5 min. with protection from light (still standing).

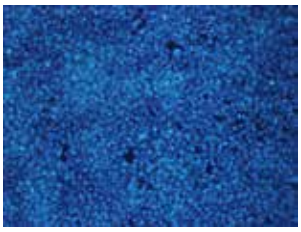
5. Remove Fluorescence enhancer solution, add 0.5 mL 50% Ethanol to each well, wash once with PBS(-).
6. Add 0.2 mL Nuclear staining solution to each well, incubate 10 min. at room temperature with protection from light (still standing).
7. Remove Nuclear staining solution, wash once with PBS(-), followed by Fluorescence microscope observation. If high background, repeat wash with PBS(-).
   Fluorescence property of each solution is follow.
   Nuclear staining solution: λ ex = 352 nm, λ em = 461 nm
   Amyloid structure fluorescent staining solution: λ ex = 390 nm, λ em = 511 nm

【IV】Detection example of α – Synuclein aggregation complex

α -Synuclein Aggregation Assay Kit (Cosmo Bio, cat. no. CSR-SYN01) was assayed using SH-SY5Y cell line, followed by Amyloid Fluorescent staining with the same kit.

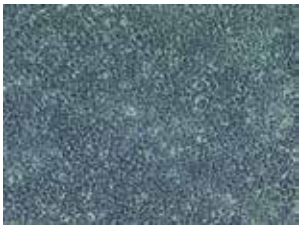
Negative control vector（pCMV-NC）

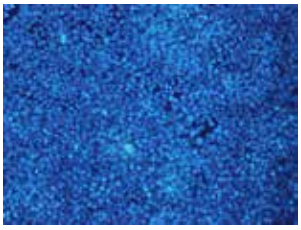

Phase difference

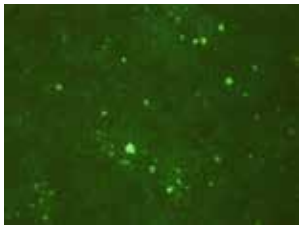

Nuclear staining


Synuclein aggregate

α-Synuclein introduction（pCMV-SNCA+ F-α Syn）


Phase difference


Nuclear staining


Synuclein aggregate

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【V】Related products

Description	Cat. No.	Quantity
α -Synuclein Aggregation Assay Kit	CSR-SYN01	1 kit (300 test)
α -Synuclein Fibrils	CSR-SYN03	0.1 MG
Human α -Synuclein, Recombinant, E.coli	CSR-SYN04	0.1 MG / 1 MG
Mouse α -Synuclein Fibrils	CSR-SYN05	1 MG
Mouse α -Synuclein, Recombinant, E.coli	CSR-SYN06	0.1 MG / 1 MG

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