

FUJIFILM**Wako**

Code No. 180-02991 (100 μ L)
186-02993 (100 μ L $\times$ 5)

rBC2LCN-FITC (AiLecS1-FITC)

rBC2LCN is a recombinant protein of N-terminal domain of BC2L-C and has been reported as a marker of undifferentiated human pluripotent stem cells (hPSCs), human ES cells and human iPSCs. This product is a FITC-labeled rBC2LCN.

rBC2LCN specifically recognize a sugar chain which exists on the surface of hPSCs. When you add rBC2LCN-FITC to the medium which is used for hPSCs culture, you can stain the living hPSCs. rBC2LCN-FITC is not toxic to cells, therefore you can culture hPSCs without any effect on the growth and pluripotency in the medium containing rBC2LCN-FITC.

This product is for laboratory research use only ; use in any such application is the responsibility of the user.

Formulation : Phosphate Buffered Saline sterilized with 0.1 μ m filter

Working Dilution : Live Cell Imaging 1:100 ~ 1:1,000
Flow Cytometry 1:100 ~ 1:1,000

Protocol for Live Cell Imaging

- 1) Culture hPSCs in appropriate culture conditions.
 - 2) Add 1 ~ 10 μ L of rBC2LCN-FITC per medium 1 mL.
 - 3) Incubate the cells over 30 min under appropriate conditions.
 - 4) Replace the medium containing rBC2LCN-FITC to a fresh medium or D-PBS(-).
 - 5) View and analyze the cells on an imaging instrument (excitation 495 nm, emission 520 nm).
- ※ Step 4 may be omitted.

Protocol for Flow Cytometry

- 1) Dissociate the hPSCs and wash with FCM* buffer once. Centrifuge and discard the supernatant.
 - 2) Resuspend the cells with FCM* buffer to prepare cell suspension of approximately 5×10^6 cells/mL.
 - 3) Add 1-10 μ L of rBC2LCN-FITC per 1 mL of cell suspension.
 - 4) Incubate the cells in the dark over 30 min at room temperature.
 - 5) Centrifuge the cell suspension at 1,000 rpm for 3 min, and discard the supernatant.
 - 6) Wash the cells with 1 mL of FCM* buffer, centrifuge the cell suspension at 1,000 rpm for 3 min and discard the supernatant.
 - 7) Suspend the washed cells in appropriate volume of FCM* buffer.
 - 8) Analyze the cells by flow cytometry.
- * FCM buffer : D-PBS(-) containing 10 mmol/L EDTA and 1% FBS, and so on.

Attention :

- 1) Staining with the rBC2LCN-FITC persists for a few days even after removing the rBC2LCN-FITC.
- 2) For continuous observations, it might be better to add the same concentration of rBC2LCN-FITC at the daily medium change. Cytotoxicity of the rBC2LCN-FITC has not been observed.
- 3) rBC2LCN-FITC is applicable to not only live cell imaging, but also staining fixed cells.
- 4) The signal of background might become higher when the cells are cultured with the medium containing serum.

Storage : Store at -20°C , in the dark

After thawing, store at $2 \sim 10^{\circ}\text{C}$. Avoid repeating freeze-thaw.

Package :

Code No.	Packaging
180-02991	100 μ L
186-02993	100 μ L $\times$ 5

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