

A Reliable Research Partner in Life Science and Medicine

Foxp3/Transcription Factor Staining Kit

Cat. No: E-CK-A108 Size: 20 Assays

Cat.	Products	20 Assays	Storage
E-CK-A108A	Fixation Concentrate (4×)	5 mL	2~8 ℃
E-CK-A108B	Fixation Dilution Solution	15 mL	2~8 ℃
E-CK-A108D	Permeabilization Buffer	170 mL	2~8 ℃
Manual		One Copy	

Storage

Store at $2\sim8$ °C for six months in the dark. Avoid freeze / thaw cycles.

Introduction

Elabscience® Foxp3 / Transcription Factor Staining Kit has been formulated and optimized for staining with antibodies to transcription factors and nuclear proteins, such as Foxp3.

Instructions

Dilute Fixation Concentrate (4×) with Fixation Dilution Solution to 1×Fixation Working Solution before use. For example, take 1 mL Fixation Concentrate (4×) [E-CK-A108A] and add it to 3 mL Fixation Dilution Solution [E-CK-A108B] to get 4 mL 1×Fixation Working Solution. Each sample requires 1 mL of 1×Fixation Working Solution.

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Experimental Procedure

- Add the single-cell suspension into tubes, 1×10^6 cells in 100 µL suspension per tube.
- 2. [Optional] Stain cells with a Fixable Viability Dye.
- 3. [Optional] Block Fc receptors in cell suspensions according to experimental requirements.
- Stain cell surface markers. Refer to the FCM protocol (Staining Cell Surface Targets for Flow Cytometry). 4.
- After incubating with the cell surface marker, add 1 mL of Cell Staining Buffer [E-CK-A107], centrifuge 5. samples at 300 ×g for 5 min, discard the supernatant, then resuspend the cells with 100 µL of Cell Staining Buffer [E-CK-A107].
- Add 1 mL of 1 xFixation Working Solution to each tube and mix fully, incubate the cells at 4 °C for 30 min, then centrifuge at 600×g for 5 min and discard the supernatant.
- Add 2 mL of Permeabilization Buffer to each tube and mix fully, centrifuge at 600×g for 5 min and discard the supernatant.
- 8. Repeat Step 7.
- Resuspend the cells with 100 µL of Permeabilization Buffer.
- 10. Without washing, add the recommended amount of directly FCM antibody for detection of intracellular antigen(s) to cells and incubate for at least 30 min at room temperature in the dark.
- 11. Add 2 mL of Permeabilization Buffer to each tube and centrifuge at 600×g for 5 min at room temperature. Discard the supernatant.
- 12. Resuspend the cells with appropriate Cell Staining Buffer [E-CK-A107], then analyze the samples by flow cytometer.

Cautions

- For maximal assay performance, this reagent should be used within 6 months. Avoid freeze / thaw cycles.
- The fixation and permeabilization steps that are required for the detection of intracellular antigens may alter the light scatter properties of cells and may increase non-specific background staining. Including extra proteins such as BSA or fetal calf serum (FCS) in the staining buffer may help reduce non-specific background. The use of Fixable Viability Dyes is recommended to help eliminate dead cells during the analysis.
- For your safety and health, please wear the lab coat and disposable gloves before the experiments.

For Research Use Only

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