



Jun 23, 2021

Mouse kidney cell staining protocol for FACS sorting

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1 Works for me

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Human Cell Atlas Method Development Community

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ABSTRACT

A brief description on staining and gating for FACS sorting the live cells from dissociated mouse kidney tissue

DOCUMENT CITATION

Xian Adiconis 2021. Mouse kidney cell staining protocol for FACS sorting. **protocols.io**
<https://protocols.io/view/mouse-kidney-cell-staining-protocol-for-facs-sorti-bv2yn8fw>

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CREATED

Jun 23, 2021

LAST MODIFIED

Jun 23, 2021

DOCUMENT INTEGER ID

51000

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A brief description on staining and gating for FACS sorting the live cells from dissociated mouse kidney tissue

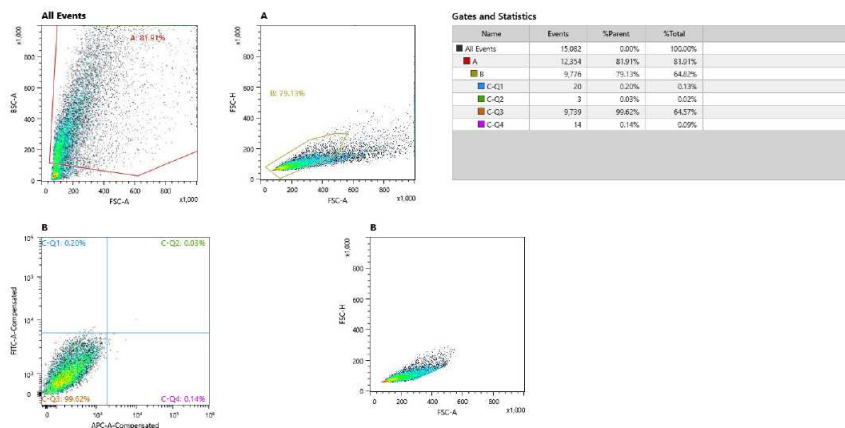
Reagents:

1. TO-PRO™-3 Iodide (642/661)- 1 mM Solution in DMSO (ThermoFisher Scientific, T3605)
2. Calcein, AM (ThermoFisher Scientific, C3099)

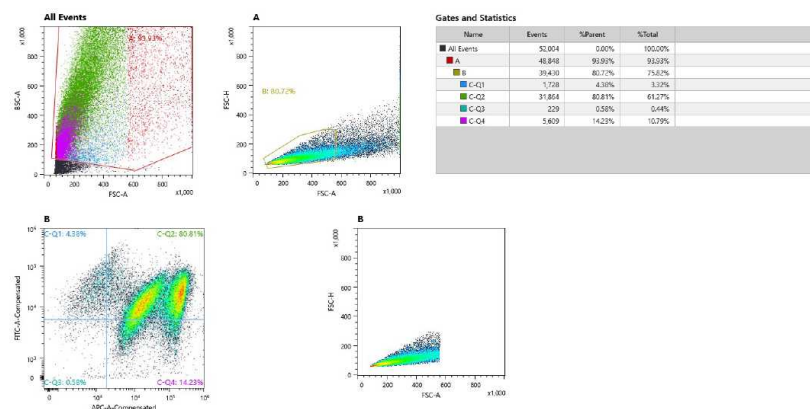
Due to the significant presence of debris (TO-PRO3 negative as the live cells), both dead cell (TO-PRO3) and live cell (Calcein) stains are needed to detect the live cells. Due to the high auto fluorescent signal of the dissociated tissue, it is essential to set aside a small amount unstained cells as the negative control for gate setting.

Make 1/1000x dilutions of above dead and live cell stain, add 3-5µl each of the diluted stain to each ml of the cell suspension 15 minutes prior to FACS sorting.

Based on the negative control signal, gate on TO-PRO3 (dead cell stain) negative and Calcein (live cell stain) positive (area C-Q1) for the stained sample for live cell sorting.



Unstained cell plots, from SONY (SH800)



Stained cell plots, from SONY (SH800)