

Supplementary Materials

# Microfluidic Detection of Adenylate Kinase as a Cell Damage Biomarker

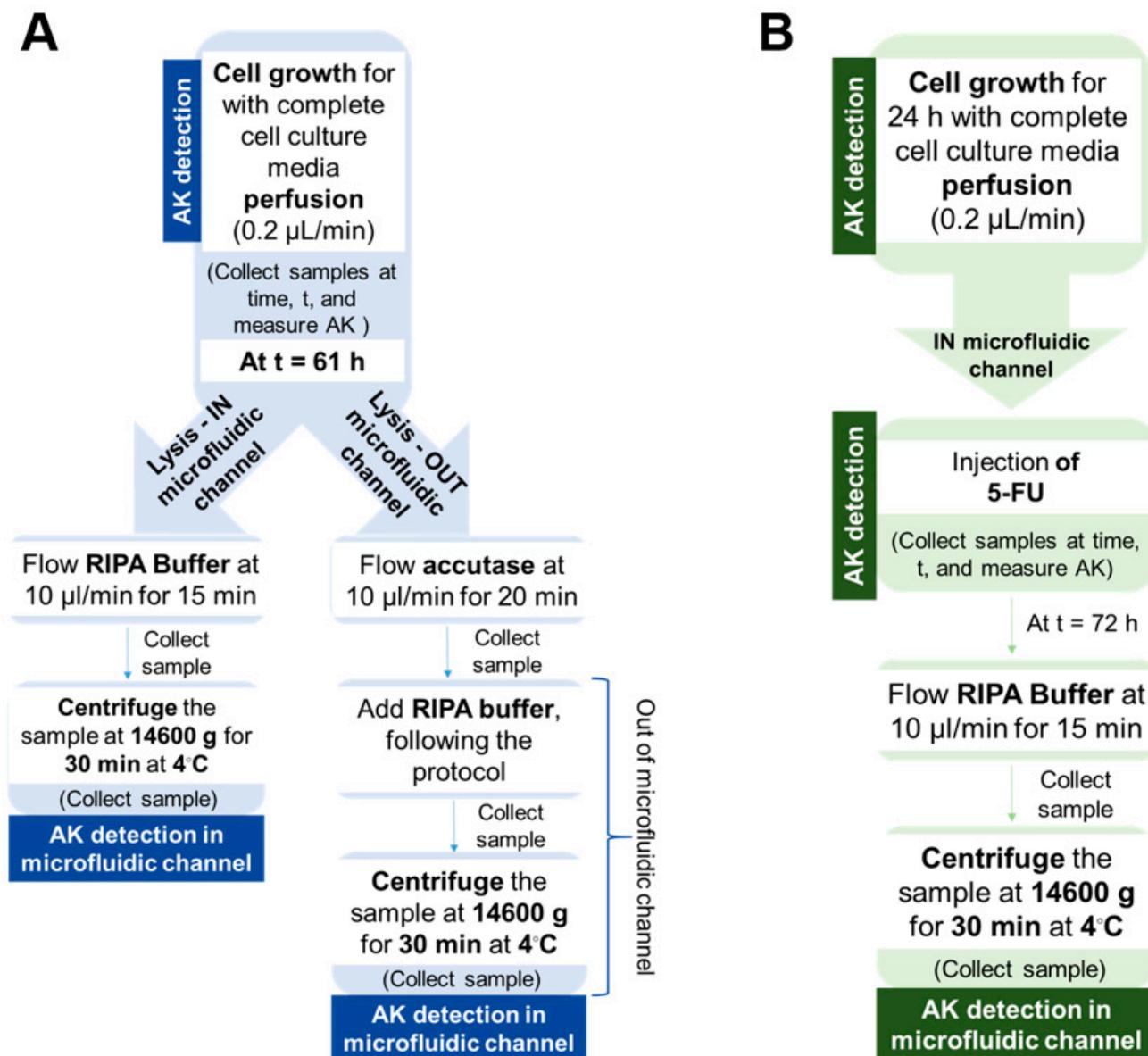
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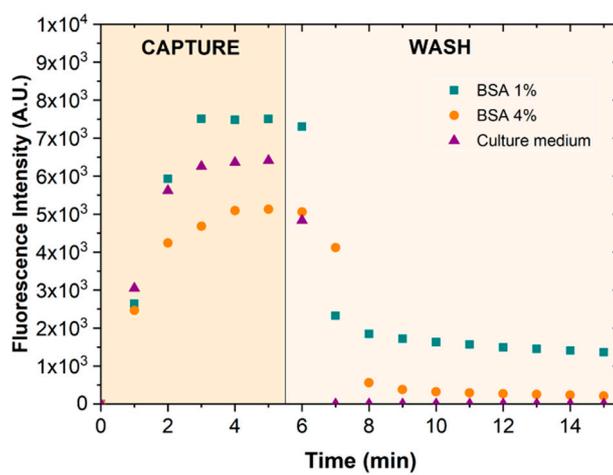
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**Figure S1.** Detection of AK resulting from cell damage in cell chips. Two different procedures were performed: **(A)** Cell growth + RIPA lysis in the microfluidic cell culture chamber. **(B)** Cell growth + 5-FU + RIPA lysis in the microfluidic cell chamber.



**Figure S2.** Optimization performed related with blocking agent, using  $[AK] = 0 \mu\text{M}$  (absence) and  $[\text{anti-AK antibody}] = 1 \text{ mg/mL}$ .