Supporting Information

In situ single cell detection via microfluidic magnetic bead assay

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This document contains the equivalent circuit for the single cell detection device.

The equivalent circuit for the single cell detection device.

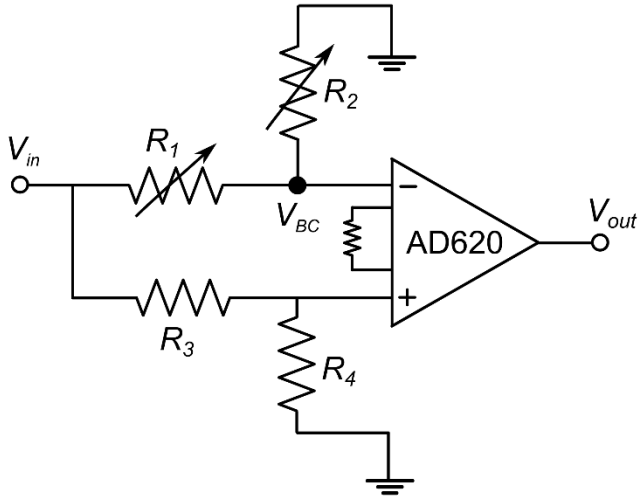

Fig S-1. The Equivalent circuit for the single cell detection device. R_1 and R_2 represent the resistance of the two successive Coulter counters. R_3=R_4=500kΩ. The voltage output V_{BC} was amplified by the differential amplifier (AD620, Analog Device, USA) and output as V_{out}.