(Supplemental information)
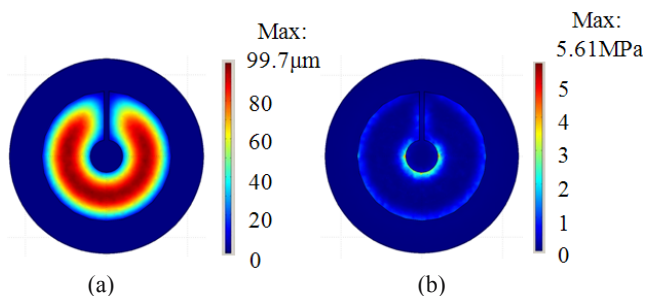

Fig. S1 Numerical simulation of the cell trapping barrier formed at the membrane pressure of 50kPa, resulting in (a) the membrane deflection (horseshoe height) of 99.7μm; (b) the maximum stress of 5.61 MPa at the inner membrane edge.
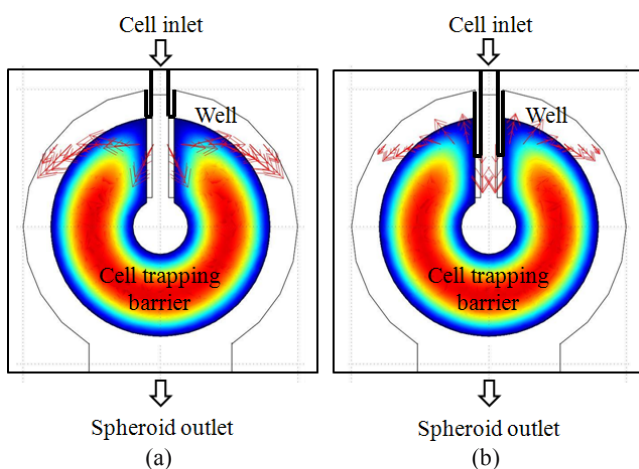

Fig. S2 Numerical simulation of the inlet flow velocity vector depending on the length of the 60μm-wide, 100μm-high inlet guides, when the cell inlet pressure of 100Pa is applied in the presence of 100μm-high cell trapping barrier: (a) 100μm-long inlet guide; (b) 250μm-long inlet guide.