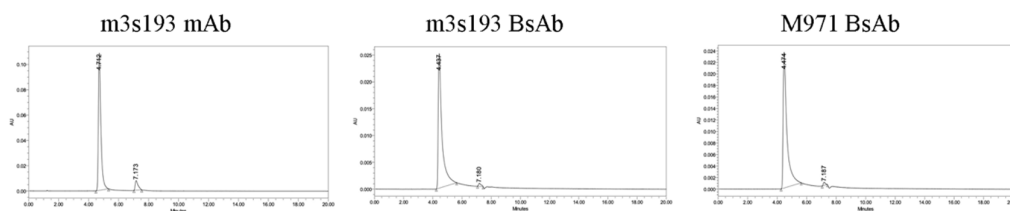


Supplementary materials



Figur S1. SEC-HPLC analysis of m3s193 mAb, m3s193 BsAb and M971 BsAb.

Samples were flowed by $6 \times 40\text{mm}$ Guard Column (Ultrahydrogel™) and $7.8 \times 300\text{mm}$ Column (Ultrahydrogel™ Linear), and using Gel Permeation Chromatography (GPC) to analyze. Major peak (about 4 minutes) is the fully paired mAb (molecular weight 150 kDa) and BsAb (molecular weight 200 kDa), and salt buffer peak (about 7 minutes).

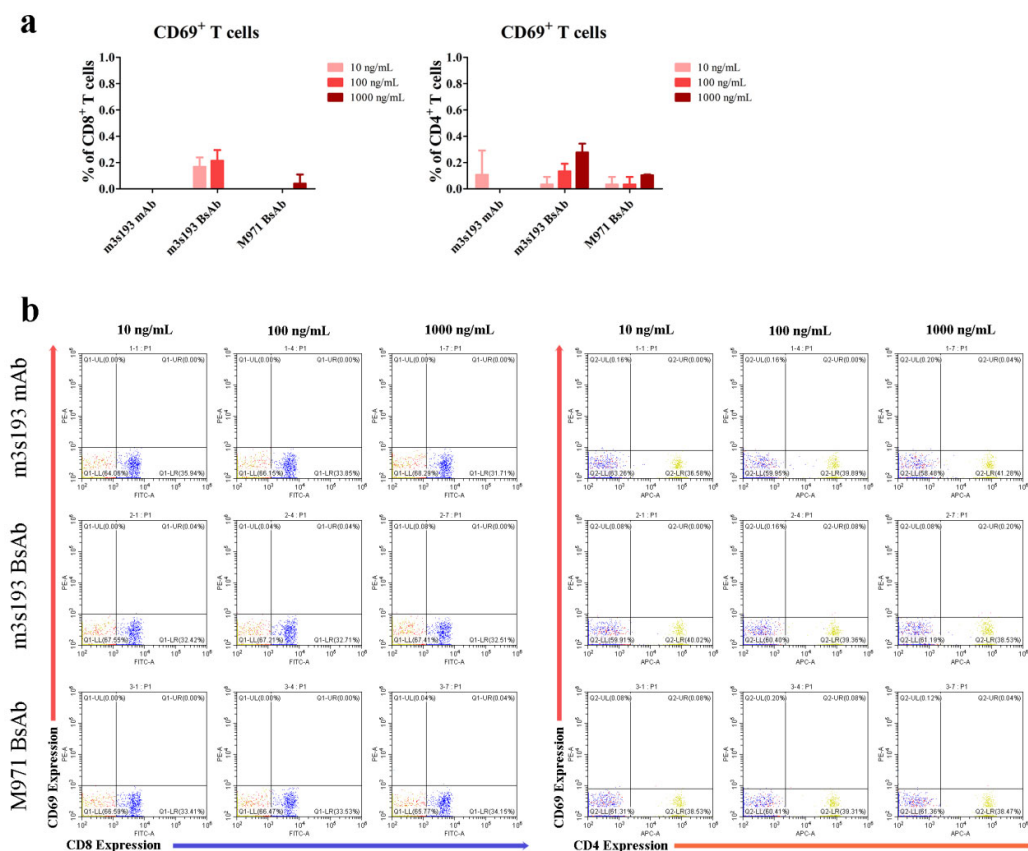


Figure S2. Auto-activation of huPBMCs mediated by m3s193 BsAb. HuPBMCs were co-incubated with mAb or BsAb under the concentrations of 10, 100, 1,000 ng/mL. After 20 h incubation, percentages of CD8⁺CD69⁺ on CD8⁺ T cells and CD4⁺CD69⁺ on CD4⁺ T cells were calculated by flow cytometry through FITC-CD8, APC-CD4 and PE-CD69 mAbs, and analyzed by GraphPad Prism. **(a)** Histogram of percentage of CD69 positive T cells on CD8⁺ or CD4⁺ T cells. **(b)** Flow cytometry assay of CD69 expression on CD8⁺ and CD4⁺ T cells.