Supplementary material

Title: Direct loading of CTL epitopes onto MHC class I complexes on dendritic cell surface *in vivo*

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Supplementary Figure 1

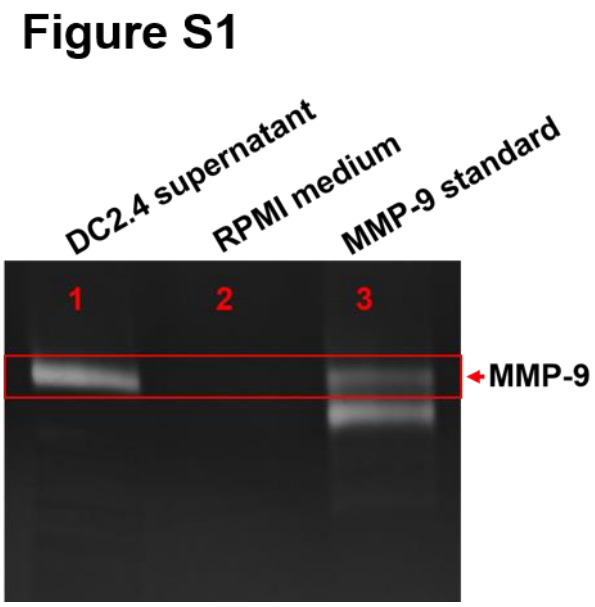

Figure S1. DC2.4 can secrete MMP-9 as demonstrated by the gelatin zymography assay.

Supplementary Figure 2

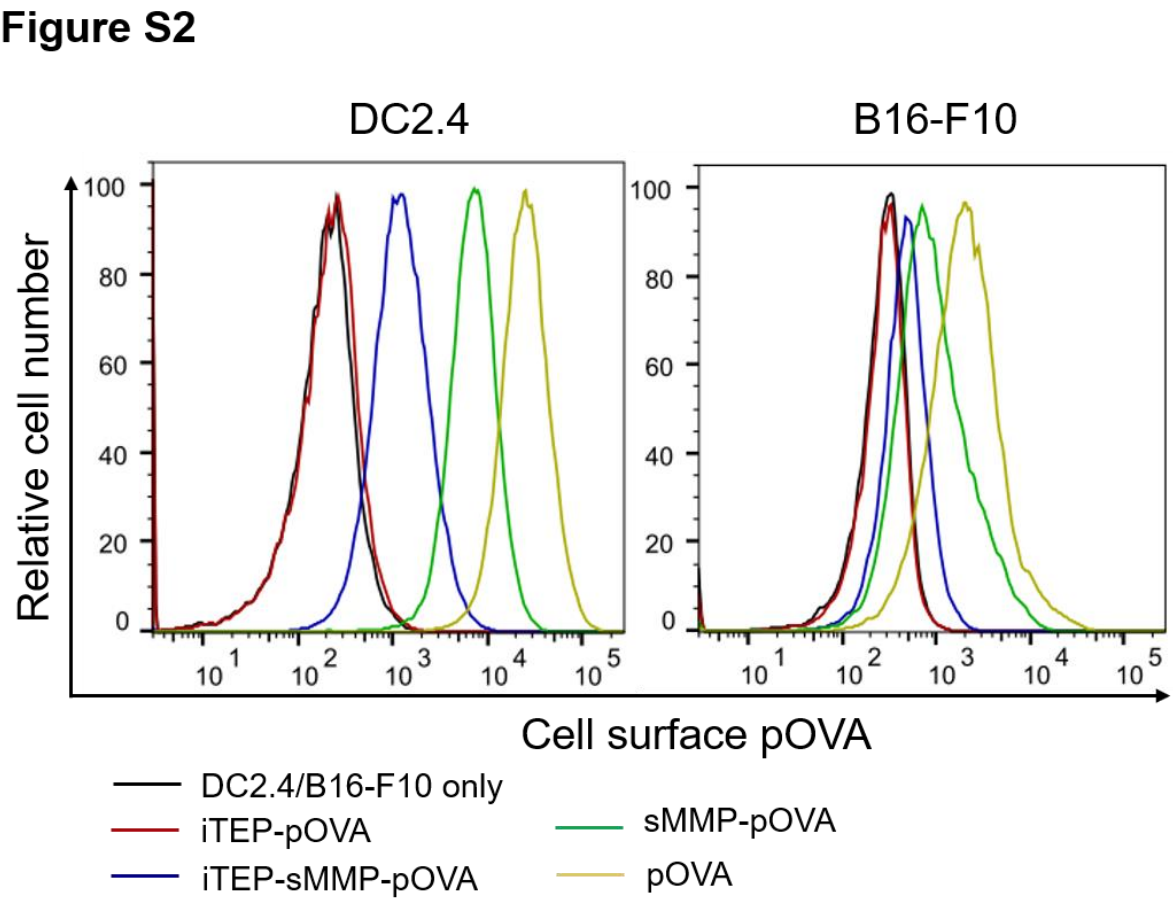

Figure S2. Representative flow cytometry plots showed the pOVA presentation on cell surface of different vaccines. DC2.4 or B16-F10 cells were incubated with pOVA, sMMP-pOVA, iTEP-sMMP-pOVA, iTEP-pOVA, or cell culture medium. The cells were then stained with anti-pOVA/MHC class I complexes antibody and analyzed by flow cytometry.

Supplementary Figure 3

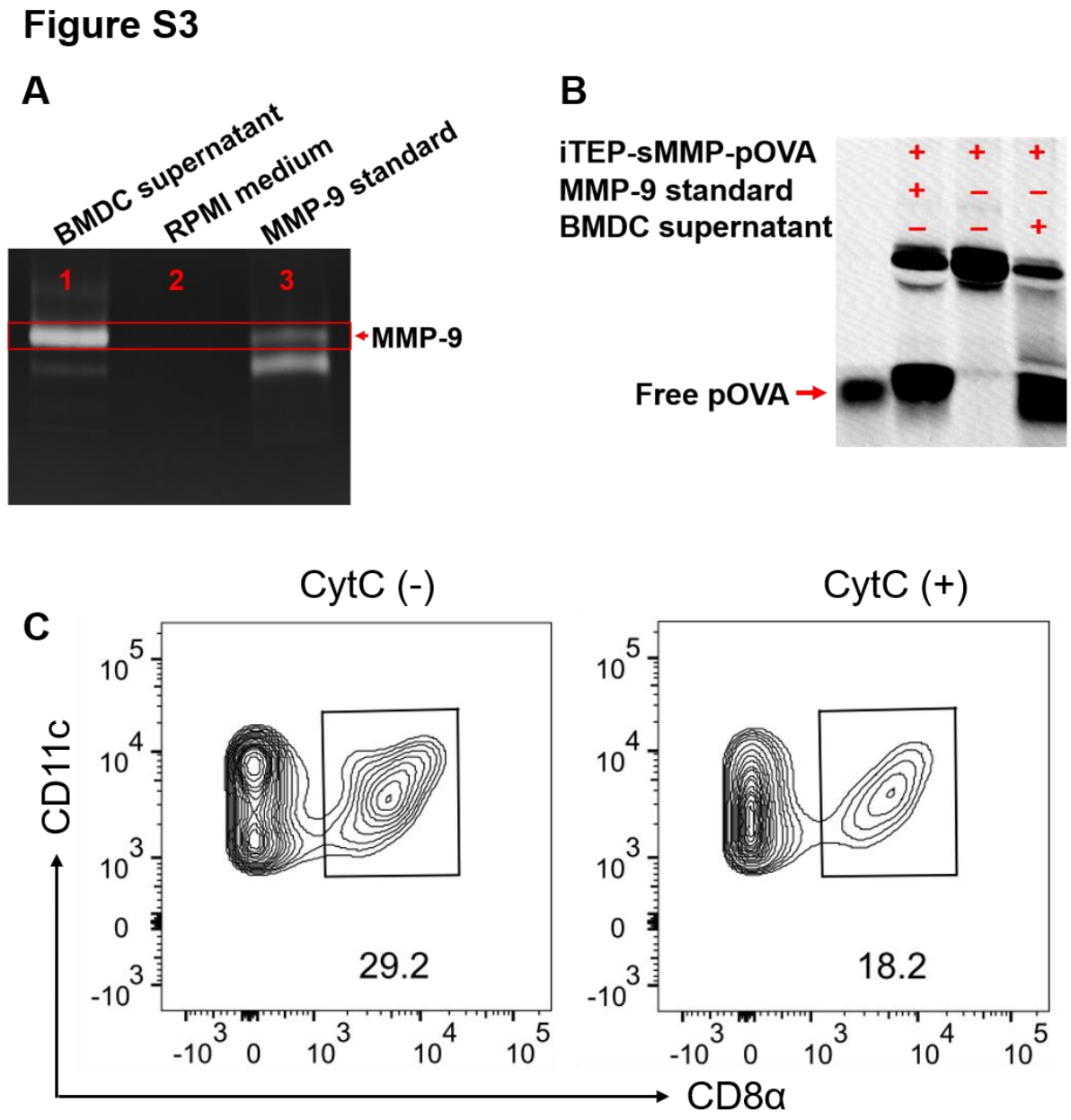

Figure S3. (**A**) BMDC can secrete MMP-9 as demonstrated by the gelatin zymography assay. (**B**) BMDC supernatant can cut pOVA epitope from iTEP-sMMP-pOVA as evidenced by the SDS-PAGE. (**C**) Injection of cytochrome *c* (CytC) reduced CD8+ DCs in mice. Representative flow cytometry plots showed the percentage of CD8+ DCs among the whole DC population from mice treated with or without CytC. Numbers in the plot indicated the percentage of CD8+ DCs.

Supplementary Figure 4

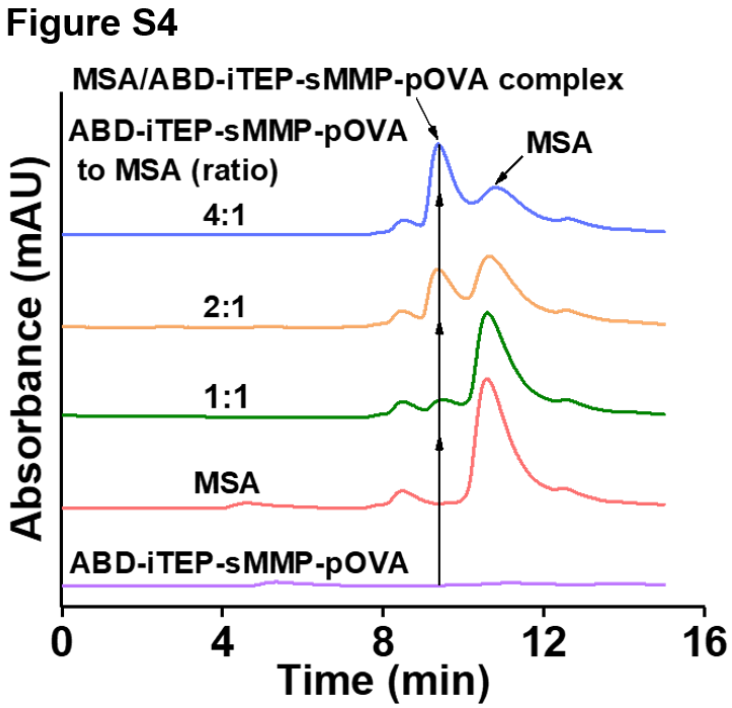

Figure S4. ABD-iTEP-sMMP-pOVA can bind to mouse serum albumin (MSA) as evidenced by size exclusion chromatography (SEC).