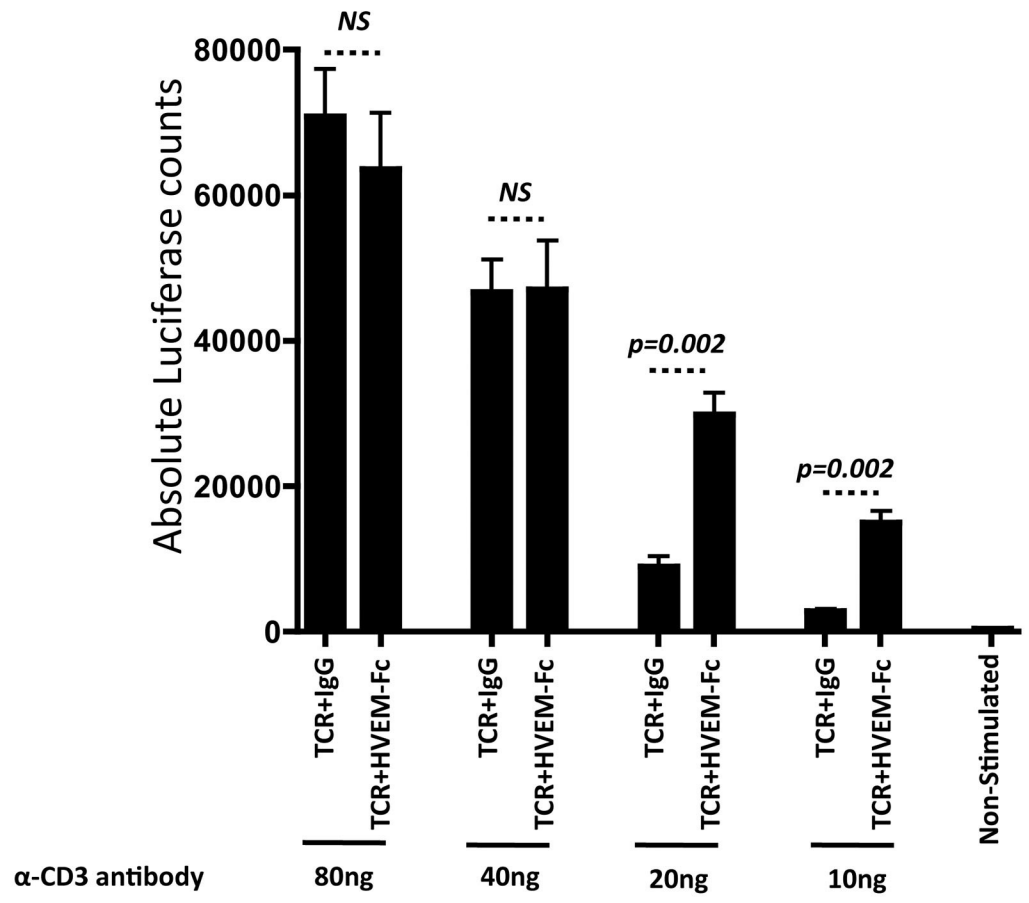
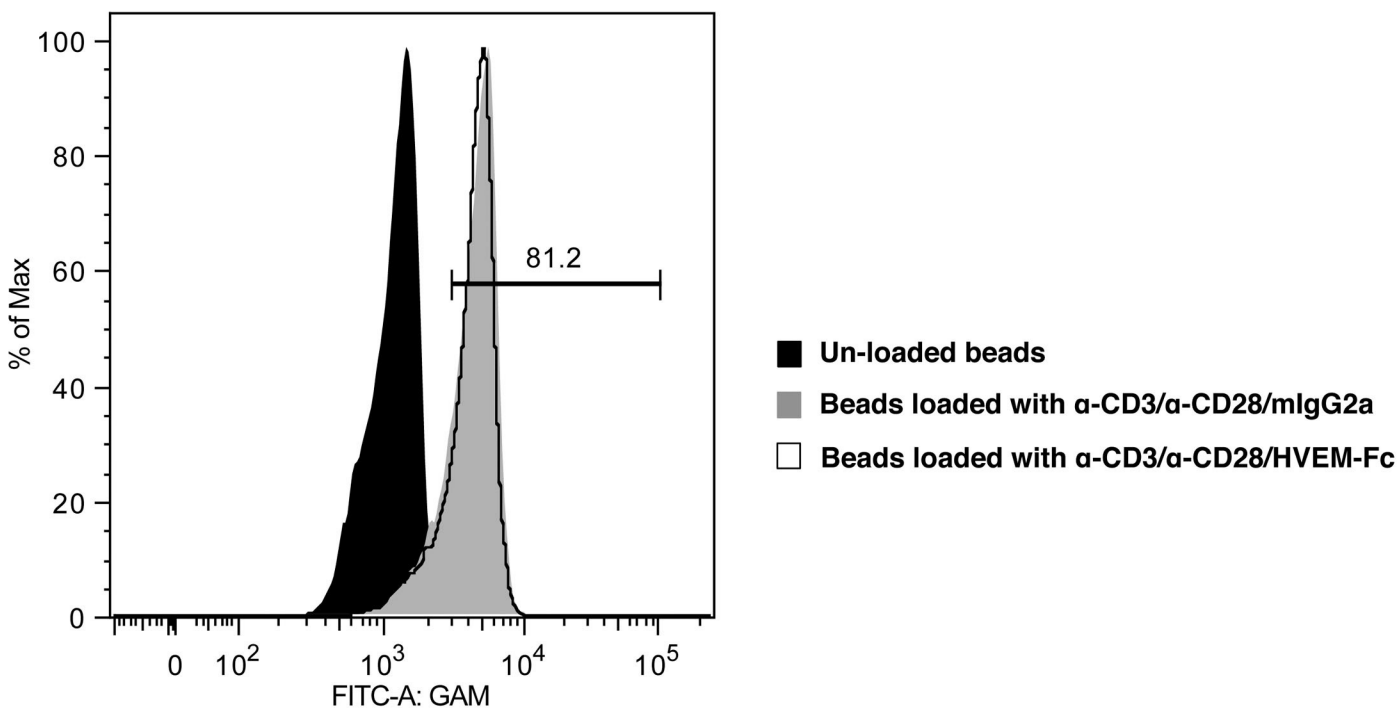
**Additional File 1**

**A)**




**B)**