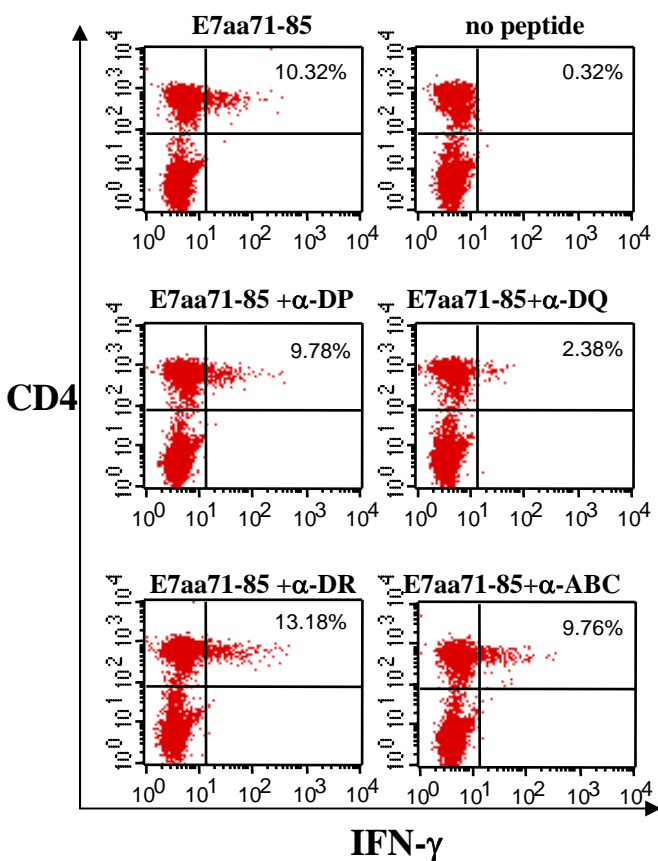
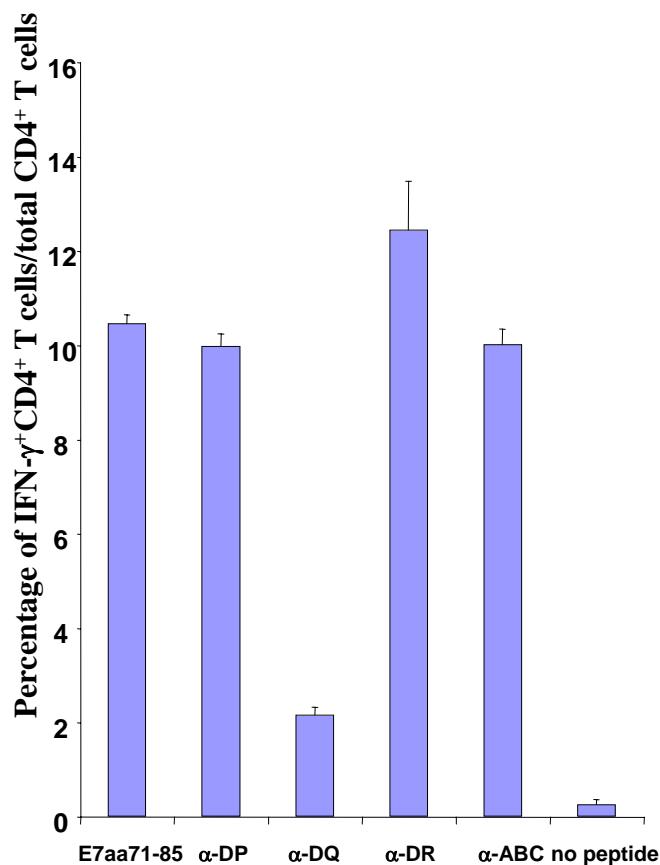


A**B**

Supplementary Figure S1. Intracellular IFN- γ staining with flow cytometry analysis to determine the HLA class restriction responsible for presenting HPV-16 E7aa71-85 peptide to CD4 $^+$ T cells. 5 μ g/ml of murine monoclonal antibodies against HLA-ABC, DP, DQ and DR were added into 1×10^5 HPV-16 E7aa71-85 peptide-specific CD4 $^+$ T cell lines. 90 min later, E7aa71-85 peptides were added and cells were incubated at the presence of GolgiPlug for 20 hours. T cells were then stained for both CD4 and intracellular IFN- γ . **A.** Representative figure of the flow cytometry data demonstrating the inhibition of CD4 $^+$ T cell immune responses using anti-HLA class I and II antibodies. **B.** Bar graph depicting the percentage of IFN- γ^+ CD4 $^+$ T cells per total CD4 $^+$ T cells (mean \pm s.d.).