Supplementary Figure Legend

Supplementary Figure 1. Recognition of N-terminally modified pMART₁₀₀₋₁₁₄ peptides by $CD4^{+}$ T cells. The T cell clone D7-F6 was co-incubated overnight with HLA-DR1⁺ 2048-EBV cells pre-pulsed with native or modified pMART-1 peptides (25 μ M). GM-CSF secretion from T cells was measured by ELISA. Background GM-CSF secretion from T cells + APC + HA₃₀₇₋₃₁₉ control peptide was <0.02 ng/ml. Results are representative of four independent experiments with D7-F6 and the parent CD4⁺ T cell line D7, showing that residues N-terminal to the P1 peptide-MHC anchor position (Tyr104) influence T cell recognition.

Residues	Sequence	DRB1*0101 IC50 (nM)	D7-F6 T cells
100-114	APPAYEKLpSAEQSPP	102	
100-114,A100I	<u>IPPAYEKLpSAEQSPP</u>	109	
100-114,P101A	A <u>A</u> PAYEKLpSAEQSPP	199	
100-114,P102A	AP <u>A</u> AYEKLpSAEQSPP	69	- -
100-114,A103I	APP <u>I</u> YEKLpSAEQSPP	346	
			0 600 1200
			GM-CSF (pg/ml)