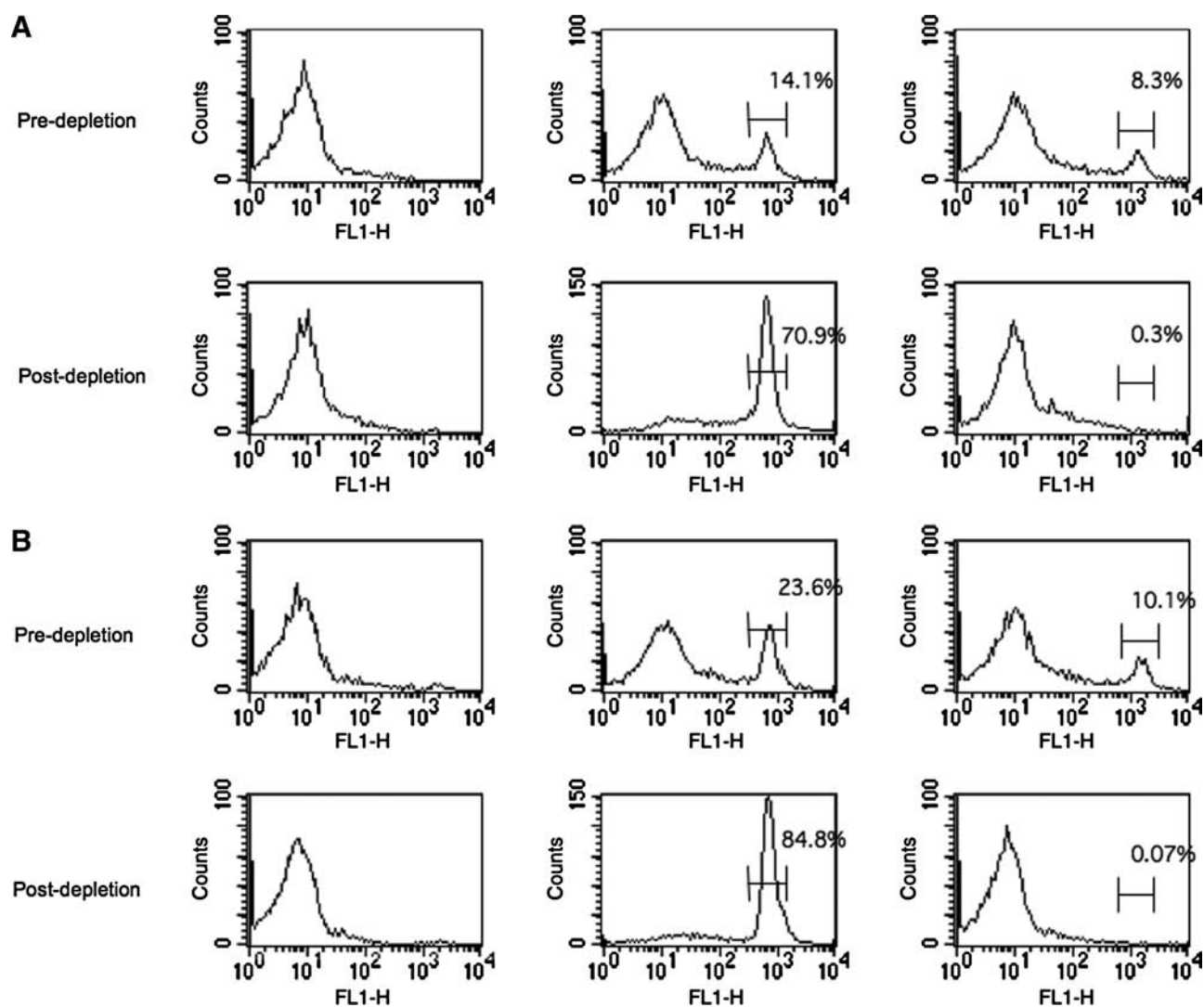


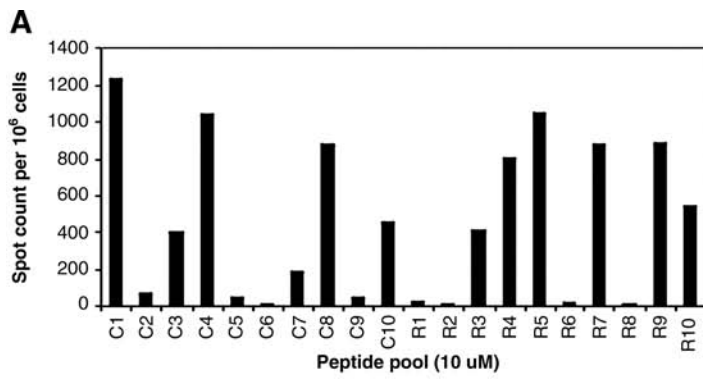
SUPPLEMENTARY TABLE 1. A/NEW CALEDONIA/20/99  
INFLUENZA (H1N1) VIRUS: PROTEINS SCREENED

Protein	Size (aa)	Number of peptides <sup>a</sup>
Hemagglutinin	565	94
Nonstructural protein 1	230	37
Nucleocapsid protein	498	82
Neuraminidase	470	78
Matrix protein 1	252	41

<sup>a</sup>Peptides screened were 17mers overlapping by 11 amino acids obtained through the NIH Biodefense and Emerging Infections Resources Repository, NIAID, NIH.

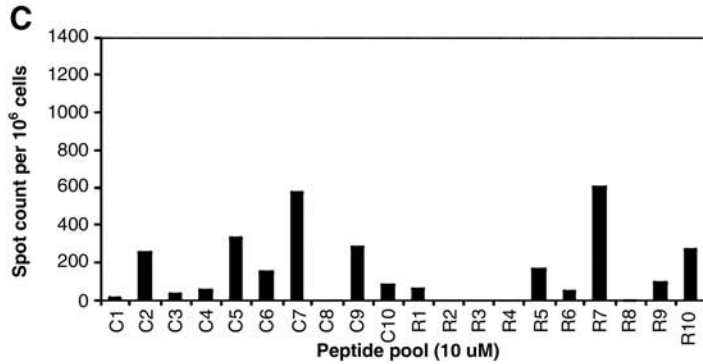


**SUPPLEMENTARY FIG. 1.** Example of flow cytometry demonstrating the enrichment of CD4 T cells following antibody and complement mediated lysis of CD8 T cells and APC. This figure is representative of the results from the CD4 enrichment of splenocytes. (A) Pre- and post-depletion results in C57BL/10 mice. (B) Pre- and post-depletion staining in SJL mice. There were <1% contaminating CD8<sup>+</sup> T cells present in any sample.



**B**

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
R1	1	7	13	19	25		63		49	55
R2	61	67	73	79	34		3	9	15	
R3			48	2	8	14	20	26	32	38
R4	53	59	65	71	77	31	37	43		
R5	27	33	39	45	51	57		69	75	81
R6	36	42		54	60	66	72	78		4
R7	10	16	22	28		40	46	52	58	64
R8	70	76	82			6	12	18	24	30
R9	44	50	56	62	68	74	80			
R10			5	11	17	23	29	35	41	47



**D**

	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
R1	1	7	13	19	25		63		49	55
R2	61	67	73	79	34		3	9	15	
R3			48	2	8	14	20	26	32	38
R4	53	59	65	71	77	31	37	43		
R5	27	33	39	45	51	57		69	75	81
R6	36	42		54	60	66	72	78		4
R7	10	16	22	28		40	46	52	58	64
R8	70	76	82			6	12	18	24	30
R9	44	50	56	62	68	74	80			
R10			5	11	17	23	29	35	41	47

**SUPPLEMENTARY FIG. 2.** Screening of the NP protein utilizing a peptide pooling matrix approach. A matrix of pooled 17-mer peptides that contained no overlapping peptides in either rows or columns was constructed, as shown in panels **B** and **D**. Peptides were considered for further analysis if they were a member of both a positive row and column (shown in gray), with no row or column containing  $>40$  spots per  $10^6$  CD4-enriched T cells excluded. All matrices were screened at least twice to ensure that no potential epitopes were falsely considered negative. The results from the NP matrix in both C57BL/10 (panels **A** and **B**), and SJL (panels **C** and **D**) mice are shown as examples. Panels **A** and **C** demonstrate the results from representative EliSpot assays, while panels **B** and **D** show the subsequent analysis of the matrix.