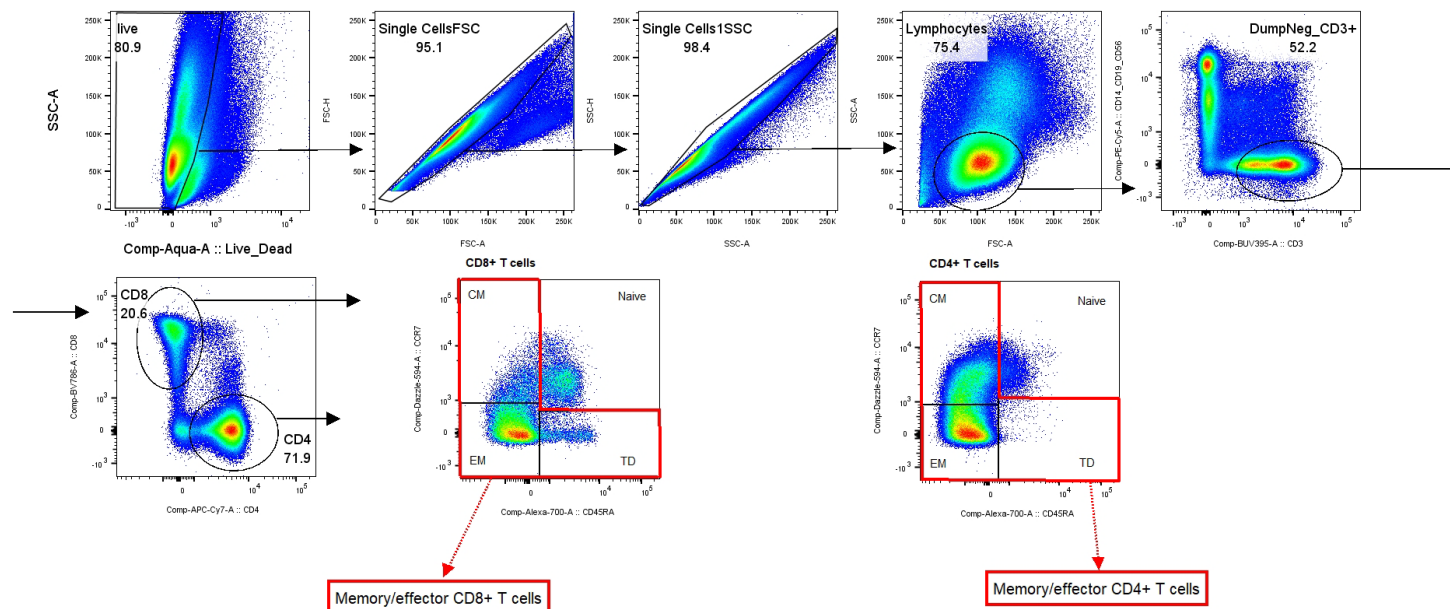
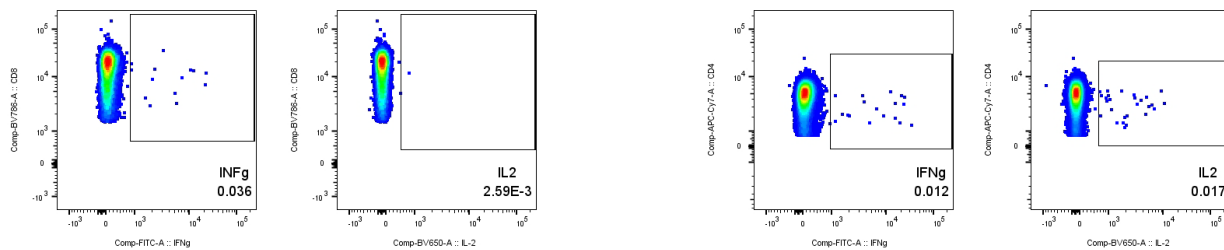


(a)

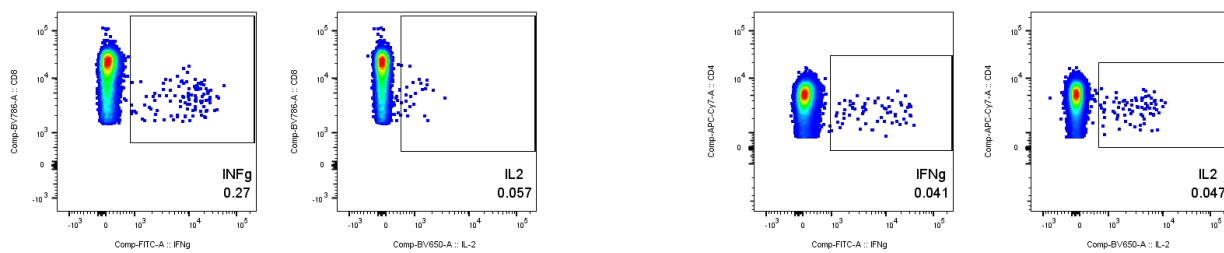


(b)

DMSO (NEG)



(c)

Spike peptide
small poolNon-spike
peptide pool

(d)

Memory/effector CD8+ T cells: Boolean combination gates

	IFN γ +IL2+	IFN γ -IL2+	IFN γ +IL2-
DMSO	0-003	0-00	0-034
Spike - small	0-006	0-006	0-015
Non - spike	0-052	0-005	0-210

Memory/effector CD4+ T cells: Boolean combination gates

	IFN γ +IL2+	IFN γ -IL2+	IFN γ +IL2-
DMSO	0-006	0-011	0-006
Spike - small	0-02	0-016	0-014
Non - spike	0-024	0-024	0-018