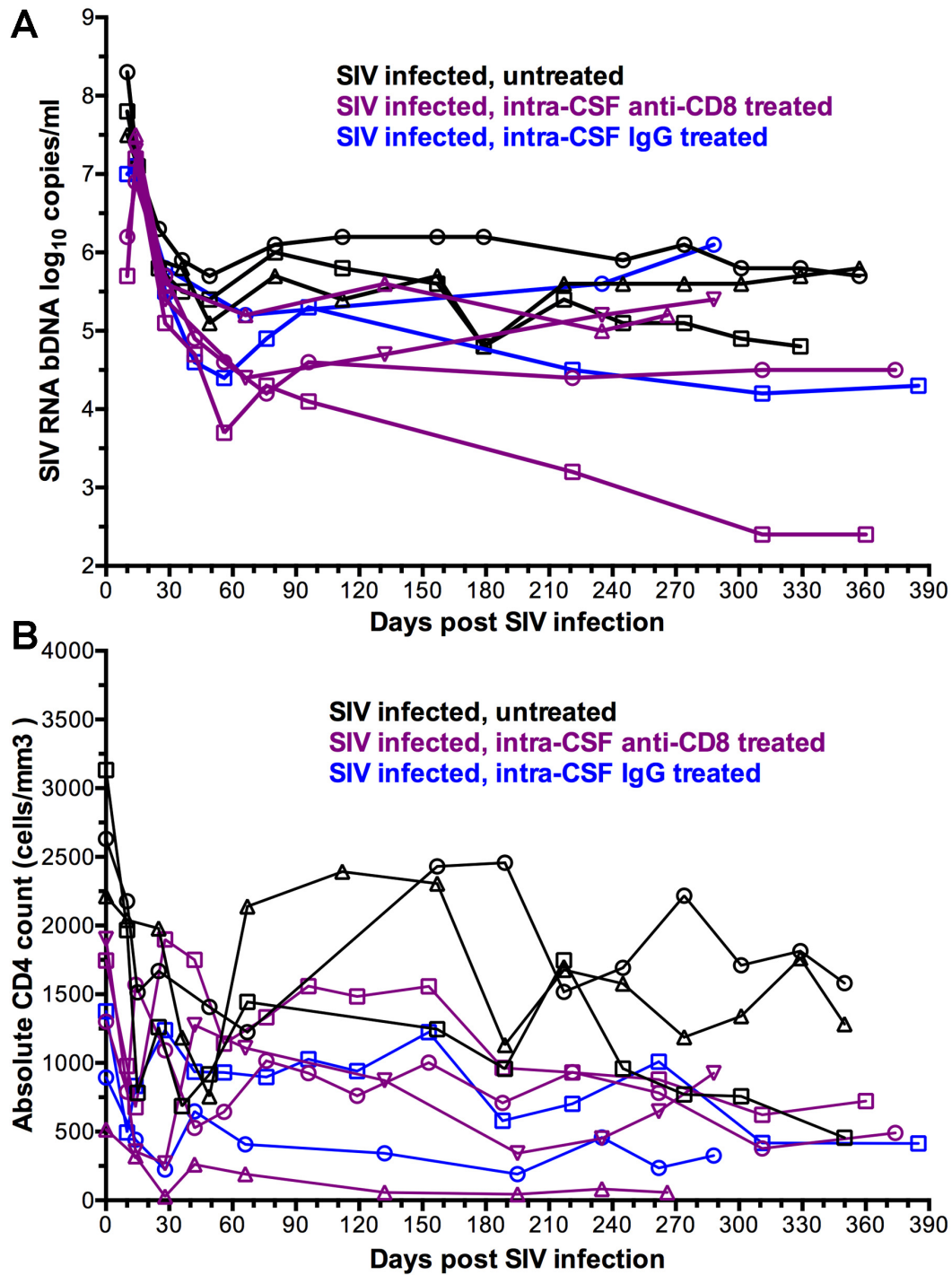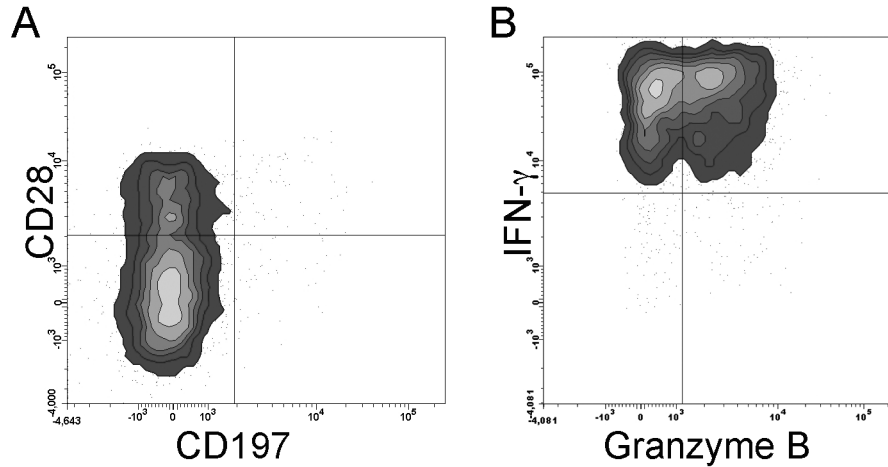| Antibodies	
Anti-human CD8, depleting (cM-T807)	Nonhuman Primate Reagent Resource
Control human IgG	Nonhuman Primate Reagent Resource
Anti-monkey CD3	Invitrogen, Carlsbad, CA
Anti-human CD8	Dako, Carpinteria, CA
Anti-human CD28	BD Biosciences, San Jose, CA
Anti-human CD197	BD Biosciences
Anti-human Granzyme B	Invitrogen
Anti-human IFN-γ	BD Biosciences
Anti-human TNF-α	BD Biosciences
Anti-human CD163	Novocastra, Newcastle Upon Tyne, UK
Anti-human HLA-DR	Zymed, Camarillo, CA
Oligonucleotides	
Rhesus CD163-forward	GCCCAGAAGGAACTTGTAGC
Rhesus CD163-reverse	CACCAAGCGAATTTCTGTGT
Rhesus CD163-probe	TGAGCAGACTACTCCAACATCCCTGC
Rhesus HLA-DRalpha-forward	TCTCAAGCACTGGGAGTTTG
Rhesus HLA-DRalpha-reverse	CACCCTTGATGATGAAGACG
Rhesus HLA-DRalpha-probe	CCCAGGGCACACACCACGTT
Rhesus GAPDH-forward	GCACCACCAACTGCTTAGCAC
Rhesus GAPDH-reverse	TCTTCTGGGTGGCAGTGATG
Rhesus GAPDH-probe	TCGTGGAAGGACTCATGACCACAGTCC
Rhesus TBP-forward	AAAGACCATTGCACTTCGTG
Rhesus TBP-reverse	GGTTCGTGGCTCTCTTATCC
Rhesus TBP-probe	TCCCAAGCGGTTTGCTGCAG

Supplemental Table 1. Antibodies and oligonucleotides used for intra-CSF treatment, flow cytometry, immunohistochemistry, and real-time PCR. Antibodies for flow cytometry were directly conjugated to fluorochromes. Probes for real time PCR were labeled at the 5'-end with a reporting dye and at the 3'-end with a quencher.

Supplemental Figure 1. Course of chronic SIV infection for experimental and control animals. (A) Plasma viral load and (B) CD4 cell count were measured over time before the onset of experimental procedures.

Supplemental Figure 2. Flow cytometry analysis for memory and effector function molecules on cells isolated from the brains of representative (of three) chronically SIV infected monkeys. (A) Surface staining for CD197 (X-axis) and CD28 (Y-axis) on gated CD3+CD8+ cells classify memory populations. (B) Intracellular staining for Granzyme B (X-axis) and IFN-γ (Y-axis) examine effector function phenotype on stimulated, gated CD3+CD8+ cells.