**Supplementary Figure S1.** A representative flow cytometry analysis demonstrating purity of naïve CD4+ T cells isolated from peripheral blood mononuclear cells from SLE patients used in this study. The purity of naïve CD4+ T cells was assessed by flow cytometry using anti-CD3, anti-CD4, and anti-CD45RA antibodies.

**Supplementary Table S1** Demographic information and SLEDAI scores of systemic lupus erythematosus patients recruited in this study.

| No. | Age | Sex | Ethnicity                        | SLEDAI score |
|-----|-----|-----|----------------------------------|--------------|
| 1   | 48  | F   | European-American               | 0            |
| 2   | 60  | F   | European-American               | 2            |
| 3   | 56  | F   | European-American               | 0            |
| 4   | 48  | F   | European-American               | 4            |
| 5   | 20  | F   | Hispanic                        | 0            |
| 6   | 53  | F   | European-American               | 8            |
| 7   | 47  | F   | European-American               | 2            |
| 8   | 29  | F   | Asian                           | 12           |
| 9   | 45  | F   | European-American               | 0            |
| 10  | 49  | F   | European-American               | 0            |
| 11  | 48  | F   | European-American               | 6            |
| 12  | 49  | F   | European-American               | 0            |
| 13  | 40  | F   | European-American               | 6            |
| 14  | 33  | F   | European-American               | 6            |
| 15  | 63  | F   | African-American                | 2            |
| 16  | 48  | F   | European-American               | 5            |
| 17  | 61  | F   | European-American               | 2            |
| 18  | 50  | F   | African-American                | 2            |
| 19  | 41  | F   | Native Hawaiian and Other Pacific Islander | 0 |
| 20  | 38  | F   | European-American               | 4            |
| 21  | 35  | F   | European-American               | 6            |
| 22  | 24  | F   | European-American               | 0            |
| 23  | 25  | F   | Asian                           | 6            |
| ID | Age | Gender | Race       | SLEDAI |
|----|-----|--------|------------|--------|
| 24 | 40  | F      | European-American | 6      |
| 25 | 41  | F      | European-American | 2      |
| 26 | 28  | F      | African-American   | 10     |
| 27 | 40  | F      | European-American | 0      |
| 28 | 46  | F      | European-American | 2      |

SLEDAI, Systemic lupus erythematosus disease activity index.