**Figure S1. Purity of naive CD4+CD45RA+ T cells.** Human naive CD4+CD45RA+ T cells were isolated using microbeads, as previously described (Wilson, N.J., K. Boniface, J.R. Chan, B.S. McKenzie, W.M. Blumenschein, J.D. Mattson, B. Basham, K. Smith, T. Chen, F. Morel, et al. 2007. *Nat. Immunol.* 8:950–957). FACS analysis of surface CD45RA and CD45RO expression in CD3+CD4+ cells. Results from 4 independent donors are shown and are representative of at least 10 donors.
Figure S2. PGE2 and cAMP enhance Th17 cytokine expression by in vitro–derived human Th17 cells. Human naive CD4+ T cells were activated with anti-CD3/CD28/CD2 beads and cultured for 11 d in the presence of IL-23, IL-1β, and/or an increasing concentration of PGE2 or dibutyryl-cAMP. (A) Real-time PCR analysis of EP1, EP2, EP3, and EP4 gene expression in T cells restimulated for 24 h. Mean ± SEM of two independent donors is shown. (B) Flow cytometric quantification of phospho-STAT3 in cells restimulated for 15 min in the presence of IL-23. Results are representative of three independent experiments. (C and E) IL-17 production in cell-free supernatants of T cells restimulated for 48 h. Results from two independent donors are shown. (D) Intracellular IL-17 and IFN–γ staining after stimulation with PMA/ionomycin. Results from two independent donors are shown. (F) Real-time PCR analysis of the indicated gene expression in T cells restimulated for 24 h. Data from six independent donors are shown, and horizontal bars represent median values.