



**Supplementary Figure 4. HDAC1-deficient Th17 cells display increased chemotaxis towards chemokines and migration speed on ICAM-1 coated surfaces. (a)** Dot plot shows WT and HDAC1<sup>cKO</sup> Th17 cell migration velocity on ICAM-1 and CXCL-12 coated surfaces. Each symbol represents the mean velocity (log 2 scale) of a single cell (n = 782 for WT and 1112 for HDAC1<sup>cKO</sup>). **(b)** Bar diagrams show diapedesis rate of HDAC1<sup>cKO</sup> Th17 cells relative to WT Th17 cells across 3μm transwell inserts. **(c)** Number of arrested WT and HDAC1<sup>cKO</sup> Th17 cells per field of view on TNFα stimulated pMBMECs under physiological flow conditions (1.5 dyn/cm<sup>2</sup>). **(d)** Post-arrest categorization of WT and HDAC1<sup>cKO</sup> Th17 cells into probing, crawling, diapedesis and detaching presented as percent of arrested cells per field of view. Horizontal lines indicate the mean. \*\*p < 0.01 (a,b: unpaired two-tailed student's t-test; c,d: paired two-tailed student's t-test). Data are representative (a) or show the summary of 3 (b) or 4 (c,d) independent experiments.