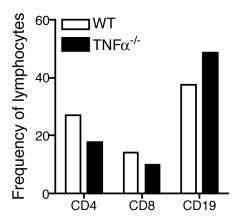
Supplemental Table 1. Gene expression changes in lymph nodes induced after four-day infection or immunization with *B. burgdorferi*.

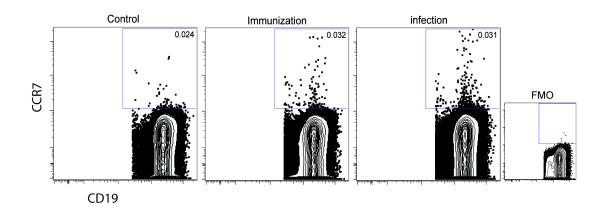
Gene ^a	Infected b	Immunized b	FD ^c
Cxcl13	122	66	1.8
Cxcl12	61	31	1.9
Cxcr2	32	6.3	5.1
Xc11	30	18	1.6
Cxcl10	25	16	1.5
Tnfrsfla	16	6	2.7
Tnfsf14	12	10	1.2
Cmtm4	8.0	3.6	2.2
Ccl20	4.0	-2.0	7.9
I14	-4.0	1.5	-6.0
Ccbp2	-7.7	-3.3	-2.3
Ccl2	-16	-1.2	-13
Cmtm6	-65	-2.1	-31

^a Genes > 4-fold changed after infection compared to non-manipulated lymph nodes. In bold those that were tested by qRT-PCR. Only one, IL-4, was confirmed to be expressed significantly higher in immunized compared to infected mice (see Fig. 3). Other genes tested: Aplnr, Bdnf, Cxcr5, Bmp10, Bmp15, Bmp6, Ccbp2, Ccl1, Ccl11, Ccl12, Ccl17, Ccl19, Ccl2, Ccl20, Ccl4, Ccl5, Ccl6, Ccl7, Ccl8, Ccl9, Ccr1, Ccr111, Ccr2, Ccr3, Ccr4, Ccr6, Ccr7, Ccr8, Ccr9, Ccr11, Ccr12, Cmtm2a, Cmtm3, Cmtm4, Cmtm5, Cmtm6, Cmklr1, Cxcr7, Csf1, Csf2, Cx3cl1, Cx3cr1, Cxcl1, Cxcl10, Cxcl11, Cxcl12, Cxcl13, Cxcl15, Cxcl2, Pf4, Cxcl5, Ppbp, Cxcl9, Cxcr3, Cxcr4, Cxcr6, Tymp, Gdf5, Ccr10, Gpr81, Hif1a, II13, II16, II18, II1a, II4, Cxcr1, Cxcr2, Inha, Inhbb, Lif, Ltb4r2, Mmp2, Myd88, Nfkb1, Rgs3, Slit2, Tlr4, Tnf, Tnfrsf1a, Tnfsf14, Trem1, Xcl1. Housekeeping genes: Gusb, Hprt, Hsp90ab1, Gapdh, Actb

^b Fold-difference in lymph node gene expression compared to non-manipulated lymph node



Supplemental Figure 1: Lack of TNF- α does not reduce B cell accumulation in draining lymph nodes after infection with *B. burgdorferi*. Shown are mean frequencies of indicated cell types in draining right inguinal lymph nodes of wildtype (WT, open bars) and TNF- α -/- mice (n = 2) infected with host-adapted *B. burgdorferi* 10 days prior to analysis. TNF- α was not required for strong B cell accumulation.



Supplemental Figure 2: Small numbers CCR7+ B cells are induced by infection with B. burgdorferi. Shown are representative samples of draining lymph nodes (n = 3) from non-infected wildtype control mice, mice immunized 6-days prior with *B. burgdorferi* lysate in CFA or infected with host-adapted *B. burgdorferi* spirochetes analyzed by multicolor flow cytometry and gated on live, CD3, 4, 8, F4/80 negative CD19+ cells. Frequencies indicate the number of CCR7+ B cells. FMO, fluorescent minus one control stain lacking CCR7 antibodies.