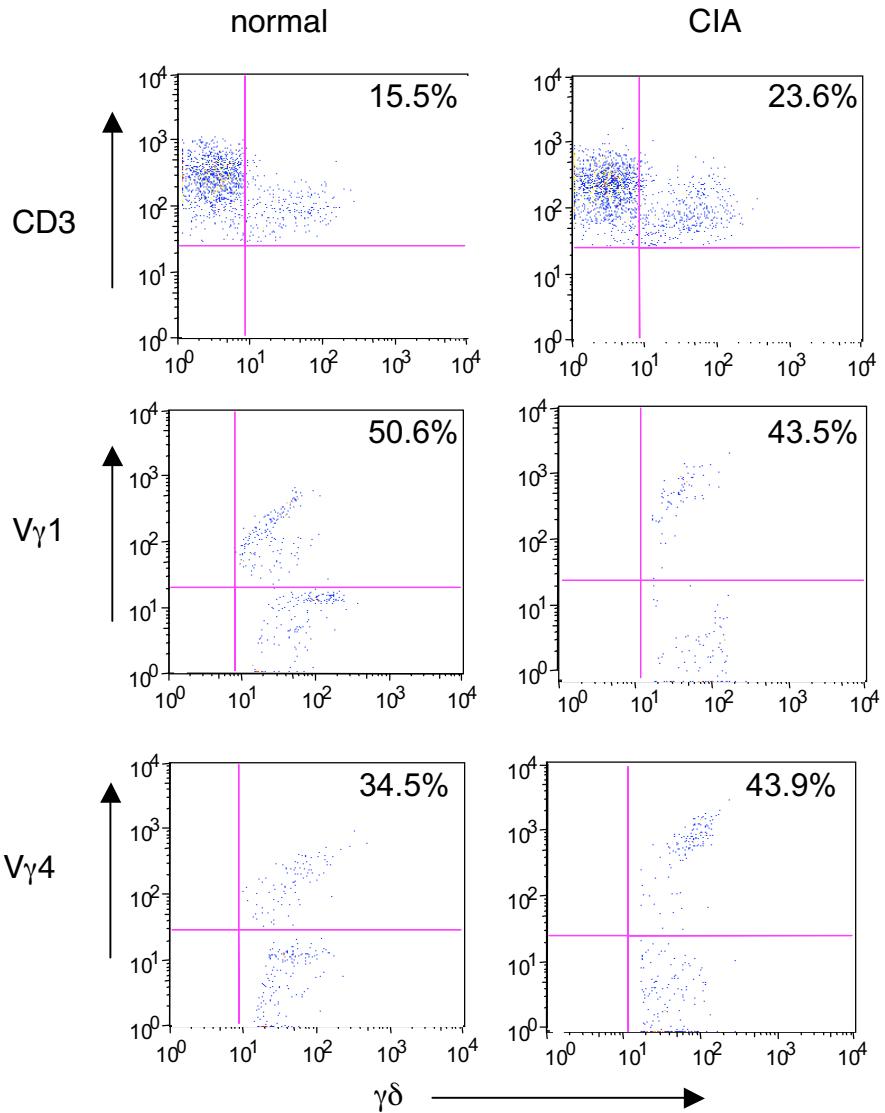
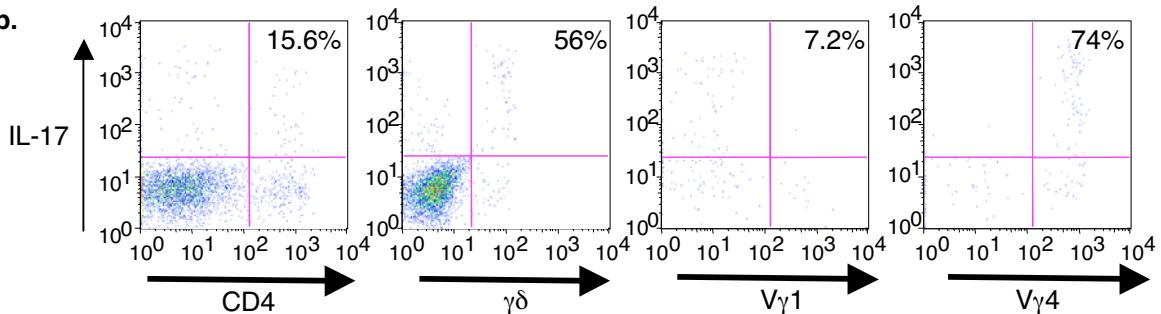


a.**b.**

Supplementary Fig. 1. (a) $\gamma\delta$ T cells are present in the normal joint and increased in diseased joints. DBA/1 lac J mice were injected with collagen/CFA and diseased joints taken on day 35. Joints were stained and compared with joints taken from mice that had not received any injections. Only diseased joints from collagen injected mice were analyzed. (b) Intracellular cytokine staining on day 26 for IL-17 in cells from the joints of collagen/CFA injected mice.

<u>Vγ4</u>	<u>N</u>	<u>Jγ1</u>	
tgttcctacgg	tctat	atagctcaggt	1/23
C S Y G	L	Y S S G	
tgttcctacgg	ccttt	atagctcaggt	1/23
C S Y G	L	Y S S G	
tgttcctacgg	cttat	atagctcaggt	4/23
C S Y G	L	Y S S G	
tgttcctacgg	ct	atagctcaggt	5/23 germline (22%)
C S Y G		Y S S G	
tgttcctacgg	cccat	atagctcaggt	
C S Y G	P	Y S S G	
tgttcc	ggg	agctcaggt	
C S	G	S S G	
tgttcctacgg	cggat	atagctcaggt	
C S Y G	G	Y S S G	
tgttcctacgg	caagagg	agctcaggt	
C S Y G	K R	S S G	
tgttcctacgg	c	agctcaggt	
C S Y G		S S G	
tgttcctacgg	cgaat	atagctcaggt	
C S Y G	E	Y S S G	
tgttcctacgg	ggtat	atagctcaggt	
C S Y G	V	Y S S G	
tgttcctacgg	ga	atagctcaggt	
C S Y G		N S S G	
tgttcctacgg	ctacg	gctcaggt	
C S Y G	Y	G S G	
tgttcctacgg	gg	atagctcaggt	
C S Y G		D S S G	
tgttcctacgg	cgcatt	atagctcaggt	
C S Y G	A	Y S S G	
tgttcctacgg	ctcct	atagctcaggt	
C S Y G	S	Y S S G	

Supplementary Fig. 2. V γ 4 sequences in the lymph nodes of naive DBA/1 mice

<u>Vδ4</u>	<u>N/Dδ1/N</u>	<u>Dδ2</u>	<u>N</u>	<u>Jδ</u>
ctcatggagcg L M E R	cggt G	atcggaggatacgag I G G I R		ctaccgacaaa A T D K
ctcatggagcg L M E R	gggg G	atcggaggatac I G G I	aggctcggg Q A R	ccgacaaa A D K
ctcatggagcg L M E R	cgaagg E G	cggaggatacg G G I R	tg	ctaccgacaaa A T D K
ctcatggagcg L M E R	cgaatggtggcaccgatcg E W W H R S	atcggaggata I G G I	g	ctaccgacaaa A T D K
ctcatggagcg L M E R	cctgcgccccgggt L R P G	atcggagg I G G	taccctctg Y P S	ctaccgacaaa A T D K
ctcatggagcg L M E R	cgagacat E T	atcggaggat Y R R D	ccag P	ctaccgacaaa A T D K
ctcatggagcg L M E R	cgctgcggcat A A A	atcggaggat Y R R D	aaa K	accgacaaa T D K
ctcatggagcg L M E R	tggcatatg G I C	tcggaggg R R	g G	taccgacaaa T D K
ctcatggagcg L M E R	cggtatatg G I C	tcggaggat R R D	g G	ctaccgacaaa A T D K
ctcatggagcg L M E R	cgttctc V L	cgg R	g G	ctaccgacaaa A T D K
ctcatggagcg L M E R	cgcc A	cggaggatacg R R D T	cgg R	accgacaaa T D K
ctcatggagc L M E	tcgggccatca L G P S	gagggatacgag E G Y E	t	ccgacaaa S D K
ctcatggagcg L M E R	gct L	atcggaggatacgag S E G Y E	ctg L	accgacaaa T D K

Supplementary Fig. 3. V δ 4 sequences in the lymph nodes of naive DBA/1 mice