

Supplemental Table 1. Baseline characteristics of patients and controls

	AS no inflammation (N=10)	AS Acute (N=8)	AS Chronic (N=12)	nrAxSpA (N=5)	Controls (N=15)
Age, mean (range) years	38 (20-55)	32 (24-48)	36 (26-50)	28 (18-34)	56 (33-68)
Sex, no. (%) male	7 (70)	6 (75)	10 (83)	2 (40)	8 (53)
HLA-B27 (%)	100	100	100	100	-
Disease duration, mean (range) months	28 (12-36)	21 (14-29)	31 (12-44)	12 (4-14)	-
CRP (mg/l), mean (range)	1.5 (0.5-2.2)	1.8 (0.7-3)	2.2 (1-4.4)	2 (0.8-2.9)	-
Axial involvement, no. (%)	10 (100)	8 (100)	12 (100)	5 (100)	-
Peripheral arthritis, no. (%)	1 (10)	2 (25)	2 (17)	0	-
Enthesitis/dactylitis, no. (%)	-	1 (12)	2 (17)	-	-
Uveitis, no. (%)	-	-	3 (25)	-	-
BASDAI score, mean (range)†	5.6 (4.5-8)	6.2 (4.6-8.8)	6.65 (4.4-9)	5.8 (5.5-9)	-
NSAIDs (%)	4 (40)	3 (37)	4 (33)	2(25)	-

Supplemental Table 2: List of antibodies and primers

<b>Antibody</b>	<b>Immunohistochemistry</b>	<b>Flow cytometry</b>
Anti-human CD3	Dako, Glostrup, Denmark	Becton, Dickinson USA
Anti-human CD4	Dako, Glostrup, Denmark	Becton, Dickinson USA
Anti-human CD8	Dako, Glostrup, Denmark	Becton, Dickinson USA
Anti-human T-bet	Abcam, Cambridge, UK	Abcam, Cambridge, UK
Anti-human IFN- $\gamma$	Abcam, Cambridge, UK	Becton, Dickinson USA
Anti-human GATA3	Abcam, Cambridge, UK	Becton, Dickinson USA
Anti-human CRTH2	LifeSpan BioScience, Inc. Seattle	Becton, Dickinson USA
Anti-human Nkp44	LifeSpan BioScience, Inc. Seattle	Biologend, San Diego, California
Anti-human RORc	Novus Biologicals, Colorado	Becton, Dickinson USA
Anti-human CD56	Dako, Glostrup, Denmark	Becton, Dickinson USA
Anti-human $\alpha 4\beta 7$	Novus Biologicals, Colorado	Biologend, San Diego, California
Anti-human IL-22	Novus Biologicals, Colorado	Becton, Dickinson USA
Anti-human IL-17	Novus Biologicals, Colorado	Becton, Dickinson USA
Anti-human IL-7	Novus Biologicals, Colorado	/
Anti-human IL-15	Novus Biologicals, Colorado	/
Anti-human MADCAM1	Novus Biologicals, Colorado	/
Anti-human IL-23R	/	Becton, Dickinson USA
Anti-human c-KIT	Novus Biologicals, Colorado	/
Anti-human Thy-1	Novus Biologicals, Colorado	/
Anti-human PNAd	Novus Biologicals, Colorado	/
Anti-human defensin 5	Abcam, Cambridge, UK	/
<b>Primers</b>		
IL-7	Hs00174202_m1	
IL-15	Hs01003716_m1	
18s	Hs99999901_s1	
GAPDH	Hs02758991_g1	