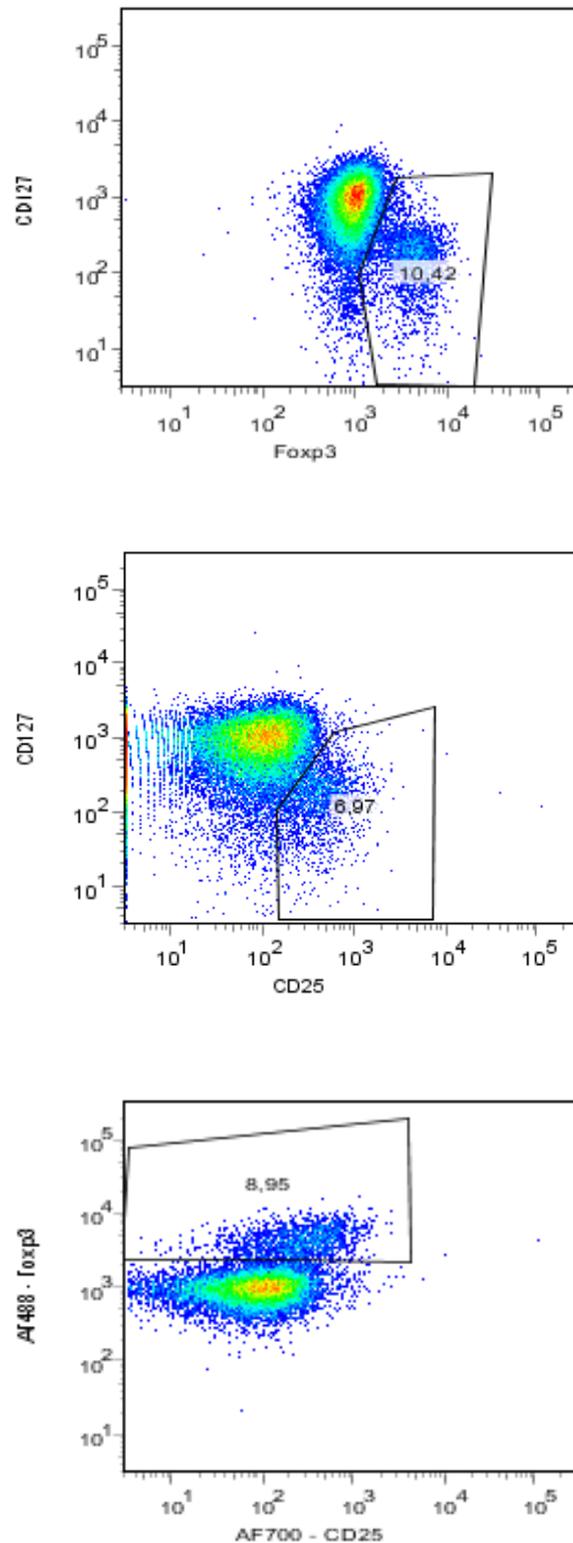


Supplementary Table 1**Cytokine concentrations (pg/ml)**

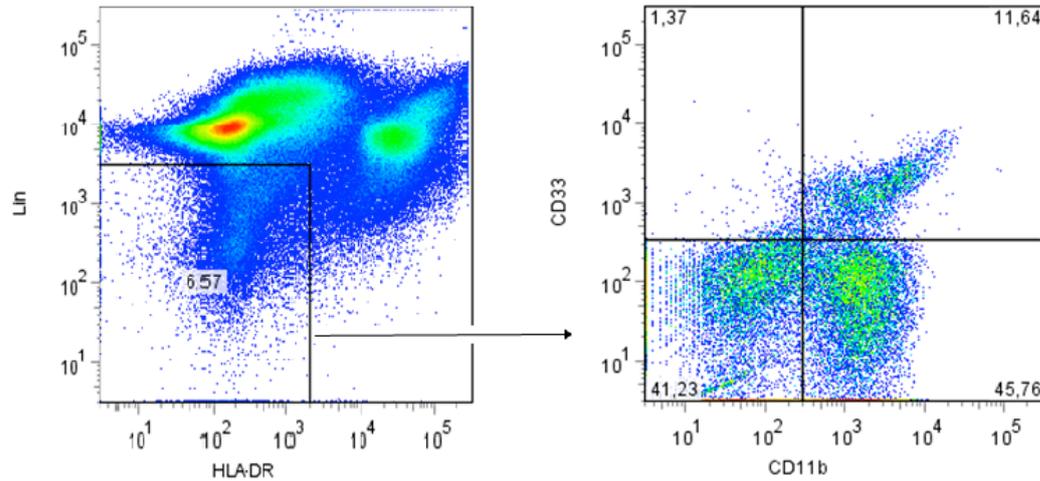
Patient no	IFN-γ	TNF-α	IL-1β	IL-2	IL-4
710	413	151	5	<1	1
712	1367	470	<1	64	1
725	122	61	5	<1	1
704	4838	246	37	<1	3
708	1163	1364	12	<1	55
711	2539	298	3	<1	<1
721	27	52	<1	6	<1
307	159	294	8	4	<1
302	32	162	22	29	9
303	12	16	2	13	<1
107	42	225	<1	35	1
108	313	428	19	23	1
305	400	524	129	117	5
113	146	689	2	8	1
205	<1	137	2	16	<1
	IL-5	IL-6	IL-8	IL-10	IL-13
710	3	467	3542	12	127
712	84	9	303	1	6337
725	16	49	298	<1	309
704	42	1118	1865	41	274
708	10595	2218	14785	586	40347
711	75	36	664	19	621
721	52	10	72	<1	264
307	65	121	3873	<1	440
302	2412	409	694	168	2329
303	12	45	1058	<1	71
107	716	48	318	7	1245
108	225	319	2569	45	1797
305	96	3107	25624	53	637
113	219	<1	8331	20	569
205	7	64	895	<1	156
	IL-17	G-CSF	MCAF	MIP-1β	GM-CSF
710	75	18	449	2872	49
712	49	<1	1	<1	651
725	<1	1	26	2698	13
704	276	16	207	7539	75
708	263	118	120	<1	1140
711	134	1	103	<1	54
721	<1	<1	2	954	<1
307	<1	1	1442	436	<1
302	71	3	<1	666	34
303	7	1	44	47	<1
107	124	2	<1	3172	73
108	7	3	318	1613	25
305	223	68	5095	1455	4
113	61	10	<1	6203	<1
205	<1	2	<1	400	<1

The cytokine profile of samples from 15 NSCLC patients was determined in Bioplex assays. T cells were stimulated with irradiated PBMCs +/- peptide GV1001. Supernatants from duplicate cultures were harvested after 48h and analyzed. The table gives mean concentrations (pg/ml) from duplicates.



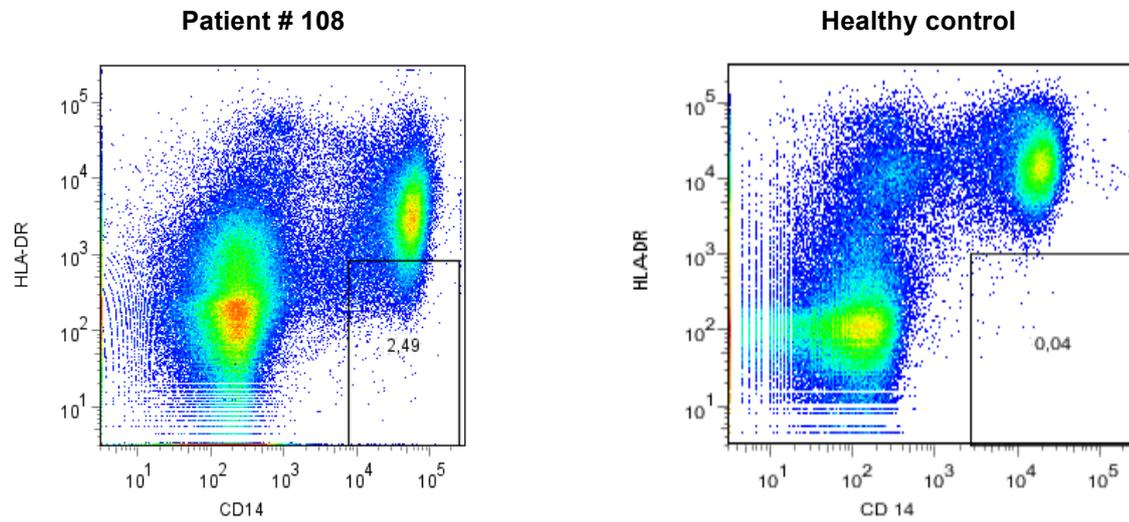
Supplementary Figure 1

Treg frequency calculation. PBMCs were stained for flow cytometry with mAbs against CD4, CD25, CD127, Foxp3. The CD4⁺ subpopulation was determined. Three gates were set, identifying CD127⁻/Foxp3⁺ (top plot), CD127⁻/CD25⁺ (middle plot) and Foxp3⁺ (bottom plot) cells. Tregs were defined as the intersection of these three subpopulations. The Treg percentage was calculated as frequency of CD4⁺ cells.



Supplementary Figure 2

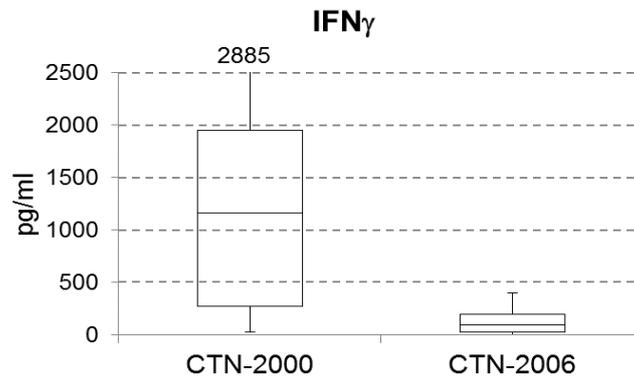
Flow cytometry analysis of Lin^{-lo}HLA-DR⁻CD33⁺CD11b⁺ MDSCs (patient 712). Left: PBMCs were stained for HLA-DR and lineage (Lin: CD 4/CD8/CD19/CD57) after CD14 exclusion. Lin^{-lo}HLA-DR⁻ cells were gated. Right: CD33⁺/CD11⁺ subpopulation of the Lin^{-lo}HLA-DR⁻ cells was determined. MDSC frequency was calculated as percentage of mononuclear cells.



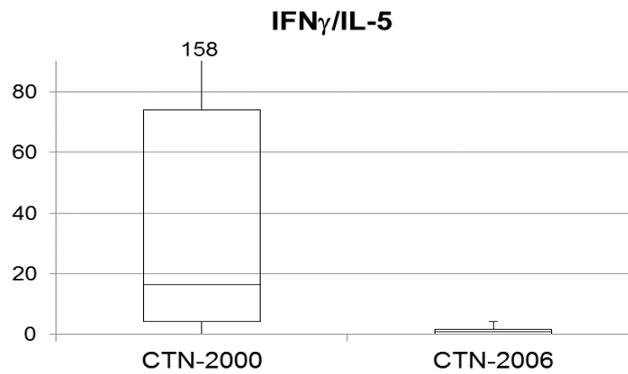
Supplementary Figure 3

Frequency of HLA-DR^{low}CD14⁺ MDSC. PBMCs were stained for CD14 and HLA-DR after CD19 exclusion. Frequency was calculated as percentage of mononucleated cells. Left: NSCLC patient with an increased number of HLA-DR^{low}CD14⁺ cells. Right: healthy control

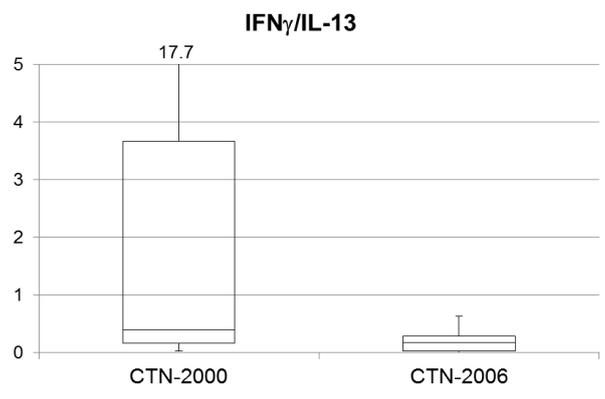
a



b



c



Supplementary Figure 4

Comparison of cytokine profiles between patients enrolled in the CTN – 2000 and CTN – 2006 protocols. IFN γ levels were generally higher in the CTN – 2000 protocol (Fig. a). This held true even when the IFN γ levels were normalized to levels of IL-5 or IL-13, by calculation of ratios for IFN γ /IL-5 (Fig. b) and IFN γ /IL-13 (Fig. c).