

9. Appendix

Appendix I: Starting cell number used for RNA isolation and corresponding cRNA yield

Tonsillar Subsets	Cell number	260/280 ratio	Concentration $\mu\text{g}/\mu\text{l}$	Yield (μg)
Replicate I				
CXCR5 ⁺ ICOS ^{-/lo}	5.14×10^6	2.11	0.324	14.58
CXCR5 ^o ICOS ^{lo}	4.12×10^6	2.23	0.315	14.17
CXCR5 ^{hi} ICOS ^{hi}	7.50×10^6	2.1	0.630	28.35
Replicate II				
CXCR5 ⁺ ICOS ^{-/lo}	1.61×10^7	1.56	0.366	16.47
CXCR5 ^o ICOS ^{lo}	6.60×10^6	1.92	1.113	50.00
CXCR5 ^{hi} ICOS ^{hi}	1.46×10^7	1.97	0.876	39.42
Replicate III				
CXCR5 ⁺ ICOS ^{-/lo}	8.30×10^6	2.09	0.780	35.10
CXCR5 ^o ICOS ^{lo}	5.00×10^6	2.08	0.675	30.30
CXCR5 ^{hi} ICOS ^{hi}	7.30×10^6	2.07	0.609	27.40

Peripheral blood Subsets	Cell number	260/280 ratio	Concentration $\mu\text{g}/\mu\text{l}$	Yield (μg)
Replicate I				
TCM1	6.88×10^6	2.18	0.777	34.90
Naive	1.20×10^7	2.16	1.035	46.57
TEM	8.90×10^6	2.18	0.771	34.69
TCM	9.80×10^6	1.97	0.609	27.40
Replicate II				
TCM1	3.90×10^6	2.25	0.411	18.49
Naive	5.95×10^6	2.24	0.678	30.51
TEM	4.66×10^6	2.24	0.528	23.76
TCM	6.43×10^6	2.22	0.474	21.33
Replicate III				
TCM1	8.30×10^6	2.00	0.690	31.05
Naive	5.80×10^6	2.06	0.489	23.70
TEM	4.20×10^6	2.09	0.414	20.00
TCM	5.50×10^6	1.89	0.507	24.50

Appendix II: 3'/5' ratio of house keeping genes GAPDH and β -actin

Tonsillar Subsets	U133A		U133B	
	GAPDH	β -Actin	GAPDH	β -Actin
Replicate I				
CXCR5 ^{lo} ICOS ^{lo}	1.99	2.67	2.30	3.26
CXCR5 ^{int} ICOS ^{int}	1.89	2.30	2.13	2.63
CXCR5 ^{hi} ICOS ^{hi}	1.38	1.41	1.47	1.41
Replicate II				
CXCR5 ^{lo} ICOS ^{lo}	1.51	1.88	1.72	1.99
CXCR5 ^{int} ICOS ^{int}	1.13	1.34	1.22	1.47
CXCR5 ^{hi} ICOS ^{hi}	1.39	1.54	1.44	1.92
Replicate III				
CXCR5 ^{lo} ICOS ^{lo}	1.30	1.98	1.65	2.29
CXCR5 ^{int} ICOS ^{int}	1.25	1.59	1.27	1.69
CXCR5 ^{hi} ICOS ^{hi}	1.61	1.87	1.70	2.09

Peripheral blood subsets	U133A		U133B	
	GAPDH	β -Actin	GAPDH	β -Actin
Replicate I				
TCM1	1.65	2.7	1.71	3.05
Naïve	1.37	2.05	1.61	2.27
TEM	1.28	2.01	1.38	2.14
TCM	1.46	1.41	1.76	1.66
Replicate II				
TCM1	1.33	3.96	1.70	3.55
Naïve	1.67	3.58	1.98	3.30
TEM	1.83	3.11	1.79	3.20
TCM	1.92	3.15	2.38	2.98
Replicate III				
TCM1				
Naïve	1.28	4.34	1.64	5.23
TEM	1.17	4.16	1.42	4.19
TCM	1.37	5.06	1.69	5.94