

Supplementary Table 3: The raw cell count for M cell induction (Relate to Figure 4D)

The raw cell count for Nox1 WT samples

WT_1											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	23	612	3.76		19	262	7.25		35	303	11.55
Location 2	1	487	0.21		43	333	12.91		37	257	14.40
Location 3	11	362	3.04		4	175	2.29		16	268	5.97
Location 4	1	176	0.57		6	285	2.11		12	292	4.11
Location 5	20	279	7.17		20	316	6.33		3	173	1.73
Location 6	1	252	0.40		3	163	1.84		2	159	1.26
Location 7	7	313	2.24		14	372	3.76		19	283	6.71
		AVE	2.48			AVE	5.21			AVE	6.53

WT_2											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	14	427	3.28		111	380	29.21		19	371	5.12
Location 2	32	319	10.03		19	226	8.41		77	441	17.46
Location 3	53	568	9.33		46	524	8.78		10	240	4.17
Location 4	45	314	14.33		9	201	4.48		26	190	13.68
Location 5	0	149	0.00		15	247	6.07		20	284	7.04
Location 6	9	240	3.75		14	219	6.39		19	237	8.02
Location 7	0	232	0.00		60	417	14.39		44	357	12.32
		AVE	5.82			AVE	11.10			AVE	9.69

WT_3											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	63	485	12.99		24	200	12.00		23	258	8.91
Location 2	28	512	5.47		7	231	3.03		158	380	41.58
Location 3	7	340	2.06		0	243	0.00		8	218	3.67
Location 4	26	333	7.81		6	206	2.91		8	283	2.83
Location 5	7	321	2.18		65	342	19.01		4	178	2.25
Location 6	0	265	0.00		149	603	24.71		6	259	2.32
Location 7	59	402	14.68		111	475	23.37		25	270	9.26
		AVE	6.45			AVE	12.15			AVE	10.12

WT_4											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	77	419	18.38		100	548	18.25		47	437	10.76
Location 2	63	472	13.35		136	561	24.24		103	434	23.73
Location 3	74	487	15.20		127	379	33.51		167	500	33.40
Location 4	94	580	16.21		65	539	12.06		53	466	11.37
Location 5	81	396	20.45		93	342	27.19		212	581	36.49
Location 6	46	393	11.70		101	434	23.27		85	409	20.78
Location 7	68	506	13.44		162	545	29.72		53	516	10.27
		AVE	15.53			AVE	24.04			AVE	20.97

WT_5											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	117	630	18.57		120	438	27.40		280	596	46.98
Location 2	32	495	6.46		35	312	11.22		50	505	9.90
Location 3	34	342	9.94		12	276	4.35		78	460	16.96
Location 4	111	378	29.37		3	361	0.83		47	412	11.41
Location 5	19	514	3.70		129	606	21.29		74	536	13.81
Location 6	52	341	15.25		188	520	36.15		101	531	19.02
Location 7	10	220	4.55		18	425	4.24		47	276	17.03
		AVE	12.55			AVE	15.07			AVE	19.30

WT_6											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	102	610	16.72		64	434	14.75		44	323	13.62
Location 2	52	555	9.37		60	353	16.92		29	253	11.44
Location 3	16	446	3.59		94	502	18.73		38	444	8.56
Location 4	25	406	6.16		48	451	10.64		43	448	9.60
Location 5	73	323	22.60		23	438	5.25		115	606	18.98
Location 6	27	331	8.16		76	498	15.26		12	472	2.54
Location 7	27	379	7.12		36	412	8.74		33	526	6.27
		AVE	10.53			AVE	12.90			AVE	10.14

The raw cell count for Nox1KO samples

KO_1											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	87	743	11.71		296	572	51.75		218	496	43.95
Location 2	130	563	23.09		80	410	19.51		371	660	56.21
Location 3	16	298	5.37		72	462	15.58		67	535	12.52
Location 4	11	479	2.30		34	395	8.61		109	647	16.85
Location 5	15	340	4.41		150	516	29.07		45	417	10.79
Location 6	37	194	19.07		158	477	33.12		391	692	56.50
Location 7	94	652	14.42		54	477	11.32		191	636	30.03
		AVE	11.48			AVE	24.14			AVE	32.41

KO_2											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	120	732	16.39		117	665	17.59		375	590	63.56
Location 2	176	628	28.03		147	590	24.92		147	475	30.95
Location 3	5	206	2.43		69	583	11.84		26	286	9.09
Location 4	103	575	17.91		47	287	16.38		109	442	24.66
Location 5	102	495	20.61		144	591	24.37		121	466	25.97
Location 6	22	436	5.05		90	385	23.38		96	430	22.33
Location 7	36	218	16.51		246	624	39.42		143	647	22.10
		AVE	15.27			AVE	22.56			AVE	28.38

KO_3											
	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	136	802	16.96		72	427	16.86		93	563	16.52
Location 2	14	354	3.95		160	600	26.67		236	602	39.20
Location 3	68	404	16.83		287	478	60.04		188	586	32.08
Location 4	10	309	3.24		78	257	30.35		10	257	3.89
Location 5	0	183	0.00		71	601	11.81		52	537	9.68
Location 6	43	459	9.37		53	430	12.33		68	482	14.11
Location 7	126	671	18.78		339	843	40.21		139	683	20.35
		AVE	9.88			AVE	28.32			AVE	19.41

KO_4

	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	174	602	28.90		137	556	24.64		209	575	36.35
Location 2	53	215	24.65		177	478	37.03		214	602	35.55
Location 3	91	518	17.57		220	582	37.80		216	609	35.47
Location 4	14	365	3.84		172	452	38.05		57	315	18.10
Location 5	13	198	6.57		166	519	31.98		115	378	30.42
Location 6	120	448	26.79		294	773	38.03		206	494	41.70
Location 7	188	673	27.93		174	722	24.10		420	665	63.16
		AVE	19.46			AVE	33.09			AVE	37.25

KO_5

	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	147	746	19.71		158	514	30.74		195	635	30.71
Location 2	51	415	12.29		73	414	17.63		229	589	38.88
Location 3	16	352	4.55		202	651	31.03		254	638	39.81
Location 4	82	424	19.34		267	595	44.87		160	539	29.68
Location 5	52	354	14.69		67	445	15.06		210	505	41.58
Location 6	29	367	7.90		207	516	40.12		45	366	12.30
Location 7	47	379	12.40		145	502	28.88		60	524	11.45
		AVE	12.98			AVE	29.76			AVE	29.20

KO_6

	No treatment				RANKL				TNF α		
	UEA-1	DAPI	%		UEA-1	DAPI	%		UEA-1	DAPI	%
Location 1	83	526	15.78		113	455	24.84		97	401	24.44
Location 2	20	570	3.51		183	683	26.85		114	556	20.50
Location 3	47	511	9.20		171	558	30.65		92	583	15.78
Location 4	43	678	6.34		217	624	34.78		84	507	16.57
Location 5	36	519	6.94		109	697	15.64		149	547	27.24
Location 6	33	382	8.64		126	689	18.29		69	581	11.88
Location 7	19	588	3.23		110	694	15.85		54	505	10.69
		AVE	7.66			AVE	23.84			AVE	18.16

The summary of M cell percentage and statistical test for Nox1WT and KO samples

	WT_1	WT_2	WT_3	WT_4	WT_5	WT_6
No treatment	2.48	5.82	6.45	15.53	12.55	10.53
RANKL	5.21	11.1	12.15	24.04	15.07	12.80
TNF α	6.53	9.69	10.12	20.97	19.3	10.10

	KO_1	KO_2	KO_3	KO_4	KO_5	KO_6
No treatment	11.48	15.27	9.88	19.46	12.98	7.60
RANK	24.14	22.56	28.32	33.09	29.76	23.80
TNF α	32.41	28.38	19.41	37.25	29.2	18.16

Wilcoxon test summary

group 1	group 2	P value	P value Summary
WT_No treatment	KO_No treatment	0.0938	ns
WT_TNF α	KO_TNF α	0.0312	*
WT_RANKL	KO_RANKL	0.0312	*
WT_No treatment	WT_TNF α	0.0625	ns
WT_No treatment	WT_RANKL	0.0312	*