

# Mast Cells Retard Tumor Growth in Ovarian Cancer: Insights from a Mouse Model

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**Suppl. Table S1. RT-qPCR primers.**

Gene	Forward Primer	Reverse Primer	UPL Number
<i>Actb</i>	aaggccaaccgtgaaaagat	gtggtacgaccagaggcatac	56
<i>Adam10</i>	gggaagaaatgcaagctgaa	ctgtacagcagggtccttgac	38
<i>Ccl2</i>	gtccctgtcatgcttctgg	cgttaactgcattctggctga	19
<i>Ccl3</i>	ttgaaaccagcagcctttg	gccggtttctcttagtcagga	20
<i>Ccl4</i>	cctctctctcctcttctcgt	ggagggtcagagcccatt	1
<i>Ccl5</i>	tgcagaggactctgagacagc	gagtgggtgccgagccata	110
<i>Ccl11</i>	agagctccacagcgttct	gcaggaagttgggatgga	18
<i>Ccl17</i>	tgcttctggggacttttctg	gaatggcccccttgaagtaa	27
<i>Ccl22</i>	caagcctggcgttggttt	cagaccatggctcatcagg	52
<i>Cpa3</i>	gctattaattccttatggctacacatt	gtggcaatccttgaacttt	16
<i>Csf2</i>	gcatgtagaggccatcaaaga	cgggtctgcacacatgtta	79
<i>Cxcl1</i>	gactccagccacactccaac	tgacagcgcagctcattg	83
<i>Cxcl5</i>	ttcttgggtgtgttaagagtgtc	tctgcatgacacagcagctt	26
<i>Cxcl12</i>	ccaaactgtgcccttcagat	atttcgggtcaatgcacact	41
<i>Cxcl13</i>	cagaatgaggctcagcacag	atgggcttcagaataaccg	63
<i>Cxcr4</i>	gcactcaactccatgagcag	cgtggagacggaagagtgtc	19
<i>Cxcr6</i>	agctactgggcttctctctga	gacctcctgaactttaggaagc	2
<i>FasI</i>	accggtgggtattttcatgg	tttaaggctttggttggtgaa	21
<i>Fcer1a</i>	tgtgtacttgaatgtaacgaaga	tggactaagaccatgtcagca	68
<i>Flt1</i>	ggccccgggatatttataagaac	ccatccatttaggggaagtc	55
<i>Gapd</i>	gggttctataaatacggactgc	ccattttgtctacgggacga	52
<i>Gypc</i>	cccaccacagtgtacctc	ggacttccctgggttaggc	70
<i>Ifna1</i>	ggatgtgaccttctcagactc	tccaaagtcttctgtctctt	51
<i>Ifng</i>	cattcagagctgcagtgacc	ctgtctggcctgtgttaaa	52
<i>Il3</i>	cgtctctctaaccgtggaa	tgggtacttcgattttggt	13
<i>Il4</i>	ggtctcaacccccagctagt	tggatattggctcctgtgacat	15

<i>Il5</i>	acattgaccgccaaaaagag	atccaggaactgcctcgtc	91
<i>Il10</i>	cagccgggaagacaataact	gttgccagctggtcctttg	48
<i>Il11</i>	tactccgccgtttacagctc	cagggggatcacagggtg	27
<i>Il12a</i>	ccaggtgtcttagccagtcc	gcagtgcaggaataatgttca	62
<i>Il13</i>	accagaggatattgcatgg	tgggctacttcgattttggt	19
<i>Il23</i>	gagcaacttcacacctcccta	tagaactcaggctgggcac	19
<i>Lgals1</i>	ccaaggaagatgggacctg	aggtcagcctggcacaagg	11
<i>Lgals9</i>	ccaggggactaccaagagttt	cttcgtgttgcaaaccacat	12
<i>Mcpt1</i>	gcaggccctactattcctga	ccgtgatgatcttcagatgg	50
<i>Mcpt2</i>	gcacttctttgccttctgg	cgaaccgttcttagtggtgaa	73
<i>Mcpt4</i>	tccttatggcacttctcttgc	gccatgtaagggcgagaat	45
<i>Mcpt5</i>	aggatgcatcttctactcttcac	cgtgcctccaatgatctctc	68
<i>Mcpt6</i>	tgtgtgtgtctggaaatacc	cccttcactttgcagacca	51
<i>Mcpt7</i>	gtgtgtctgggaatgaaggac	ttctaccttcagaccagagg	51
<i>Mcpt8</i>	ggatgttctctgctcctggt	tggggtttgactctgtacc	83
<i>Mcpt9</i>	atggcacttctctgccttc	gtcgggagtggttcagac	19
<i>Mmp2</i>	aactttgagaaggatggcaagt	tgccaccatggtaaacaa	29
<i>Mmp9</i>	acgacatagacggcatcca	gctgtggttcagttgtgtg	19
<i>Mmp12</i>	ccacttcgcaaaaaggttta	ggggtaagcagggtccat	51
<i>Par1</i>	gtctcccgcgtccctat	gggttcaccgtagcatctgt	20
<i>Par2</i>	ggggatgcgaagtctcag	agacttcttcttactgttgtgc	3
<i>Rplp0</i>	ctgctgaacatgctgaacac	tgtcagcacttcagggtta	62
<i>Scf</i>	agcgctgcctttccttatg	cgcagatctccttggttttg	68
<i>Serpine1</i>	aggatcgaggtaaacgagagc	gcgggctgagatgacaaa	69
<i>Stat3</i>	cgatgcctgtgggaagag	gtcactacggcggctgtt	25
<i>Timp1</i>	gcaaagagctttctcaaagacc	agggatagataaacagggaacact	76
<i>Timp2</i>	ttttgcaatgcagacgtagtg	ggaatccacctccttctcg	21
<i>Timp3</i>	cacggaagcctctgaaagtc	tcccaccttccacaaagt	62
<i>Tnf</i>	tcttctcattctgcttgg	ggtctgggcatagaactga	49
<i>Trp53</i>	acgcttctccgaagactgg	agggagctcgaggctgata	25
<i>Ubc</i>	gtctgctgtgtgaggactgc	cctccagggtgatggtctta	77

Fig. S1

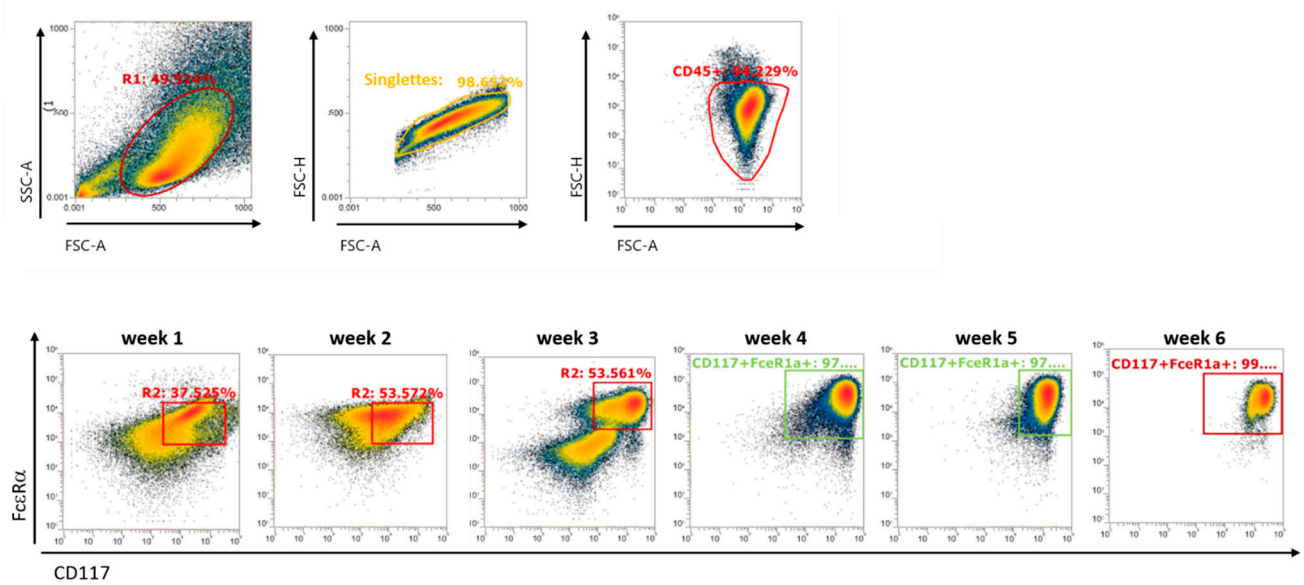


Figure S1: Purity of cultured BMMCs. Representative dot plots from cultured BMMCs used for systemic transfer into Kit<sup>W-sh</sup> mice. Cells were stained with antibodies against FcεRα and CD117. BMMCs showed a purity of >99% after 6 weeks in culture. BMMC, bone marrow-derived mast cells.

Suppl. Table S2. RT-qPCR results.

Gene	ID8 in C57BL/6J (mean ± SD)	ID8 in Kit <sup>W-sh</sup> (mean ± SD)	BMMC + ID8 in Kit <sup>W-sh</sup> (mean ± SD)
<i>Csf2</i>	4.14 ± 3.16	4.33 ± 2.45	6.67 ± 3.81
<i>Ifnβ1</i>	7.91 ± 3.69	4.33 ± 1.29	9.43 ± 4.36
<i>Ifnγ</i>	7.93 ± 3.76	4.13 ± 1.61	10.63 ± 3.45
<i>Il3</i>	7.36 ± 3.49	2.98 ± 0.85 *	9.67 ± 3.98
<i>Il4</i>	7.63 ± 3.22	4.45 ± 1.28	10.13 ± 3.45
<i>Il5</i>	2.39 ± 2.84	3.75 ± 1.09	5.90 ± 3.40
<i>Il10</i>	5.98 ± 2.56	7.48 ± 1.24	8.47 ± 4.90
<i>Il11</i>	4.68 ± 3.04	6.28 ± 2.42	6.20 ± 5.42
<i>Il12a</i>	6.20 ± 2.71	6.65 ± 2.40	8.90 ± 3.69
<i>Il13</i>	3.68 ± 2.83	4.90 ± 1.32	5.30 ± 5.33
<i>Il23</i>	1.44 ± 1.81	5.68 ± 1.23 **	5.20 ± 5.25
<i>Tnf</i>	7.54 ± 2.56	8.35 ± 1.44	10.50 ± 4.61
<i>Ccl2</i>	10.84 ± 2.96	11.60 ± 1.95	13.73 ± 3.94
<i>Ccl3</i>	8.40 ± 3.06	8.43 ± 1.73	11.60 ± 3.86

<i>Ccl4</i>	8.70 ± 2.74	9.38 ± 1.72	12.07 ± 4.27
<i>Ccl5</i>	10.93 ± 2.62	10.43 ± 1.51	15.83 ± 3.16
<i>Ccl11</i>	8.58 ± 2.69	8.40 ± 1.56	11.47 ± 3.92
<i>Ccl17</i>	10.66 ± 3.82	10.58 ± 0.82	14.77 ± 3.30
<i>Ccl22</i>	8.01 ± 2.63	8.50 ± 1.52	12.13 ± 3.99
<i>Cxcl1</i>	7.70 ± 2.85	10.88 ± 2.27	10.17 ± 6.64
<i>Cxcl5</i>	10.13 ± 3.30	12.50 ± 2.46	11.67 ± 4.79
<i>Cxcl13</i>	10.96 ± 2.99	10.85 ± 0.93	15.67 ± 3.35
<i>Cpa3</i>	11.99 ± 3.54	3.45 ± 1.36 ***	6.47 ± 7.01
<i>FceRa</i>	8.07 ± 3.17	3.88 ± 1.63	5.67 ± 5.12
<i>Mcpt1</i>	6.61 ± 4.27	2.13 ± 1.52	0.33 ± 0.47 **
<i>Mcpt2</i>	8.83 ± 3.60	2.73 ± 0.87 **	3.00 ± 4.24
<i>Mcpt4</i>	10.49 ± 2.42	1.68 ± 0.90 ****	6.17 ± 6.59
<i>Mcpt5</i>	11.11 ± 2.16	3.70 ± 0.44 ****	5.60 ± 7.92
<i>Mcpt6</i>	13.17 ± 2.18	4.50 ± 0.38 ****	10.40 ± 6.05
<i>Mcpt7</i>	10.07 ± 2.92	0.50 ± 0.50 ****	8.73 ± 4.69
<i>Mcpt8</i>	1.88 ± 2.75	5.65 ± 3.75	0.00 ± 0.00
<i>Mcpt9</i>	0.91 ± 1.20	0.35 ± 0.61	2.80 ± 3.96
<i>Scf</i>	10.36 ± 2.36	11.65 ± 1.31	12.80 ± 4.24
<i>Adam10</i>	9.71 ± 2.31	11.40 ± 1.30	11.23 ± 4.56
<i>Cxcl12</i>	12.77 ± 2.88	13.83 ± 1.32	15.03 ± 4.03
<i>Cxcr4</i>	9.74 ± 2.98	10.35 ± 1.32	11.97 ± 3.87
<i>Cxcr6</i>	5.34 ± 2.80	7.10 ± 1.51	7.70 ± 4.69
<i>Fasl</i>	4.13 ± 2.56	4.73 ± 1.88	7.43 ± 4.40
<i>Flt1</i>	9.18 ± 2.98	10.00 ± 0.85	11.63 ± 4.24
<i>Gypc</i>	7.36 ± 2.06	9.33 ± 1.37	10.67 ± 4.09
<i>Ifn1</i>	9.13 ± 3.79	3.95 ± 1.98 *	10.33 ± 4.17
<i>Lgals1</i>	17.89 ± 3.43	18.40 ± 1.51	20.87 ± 3.79
<i>Lgals9</i>	12.51 ± 2.43	14.48 ± 1.44	13.83 ± 6.43
<i>Lgals3</i>	10.14 ± 2.18	11.60 ± 1.16	12.93 ± 4.48
<i>Mmp2</i>	12.93 ± 2.20	15.45 ± 1.56	15.13 ± 5.52
<i>Mmp9</i>	8.54 ± 4.07	10.68 ± 2.05	10.33 ± 4.17
<i>Mmp12</i>	10.19 ± 4.91	9.88 ± 1.61	12.83 ± 3.44
<i>Serpine1</i>	10.33 ± 3.12	11.63 ± 1.95	13.10 ± 4.39
<i>Par1</i>	12.28 ± 3.24	13.50 ± 1.42	14.67 ± 4.54
<i>Par2</i>	8.92 ± 2.51	9.18 ± 1.12	9.80 ± 5.83
<i>Stat3</i>	11.49 ± 2.59	12.85 ± 1.44	13.57 ± 4.54
<i>Timp1</i>	13.60 ± 3.80	15.23 ± 2.0	16.17 ± 4.06
<i>Timp2</i>	15.50 ± 2.78	16.45 ± 1.19	17.47 ± 4.29
<i>Timp3</i>	15.22 ± 2.31	17.70 ± 1.57	17.43 ± 5.14
<i>Trp53</i>	10.54 ± 2.33	12.48 ± 1.29	12.70 ± 5.00

\* compared to C57BL/6J (\*p<0.05, \*\*p<0.01, \*\*\*p<0.001)