SUPPLEMENTAL FIGURE LEGENDS

Figure S1. IL-4 potently induces luciferase expression in THP-1 cell clones stably transfected with a MRC1 promoter-driven luciferase construct. A) Expression constructs with MRC1 promoter-driven luciferase activity used for generating THP-1 cell clones stably expressing these constructs. The MRC1 promoter lies within 1.0kb upstream of the MRC1 start codon. B) Luciferase activity of a THP-1 cell clone stably transfected with a 1.0kb MRC1-promoter luciferase construct. IL-4 or IL-13 induce M2-type macrophage polarization, reflected by the increased MRC1-luciferase activity (>5-fold). Increasing the dose from 20 to 40ng/ml or combining IL-4 and IL-13 does not further increase luciferase activity. C) IL-4 treatment of PMA primed THP-1 cells, induces luciferase activity, consistent with M2-type macrophage polarization (M2). IL-4-induced M2-type polarized macrophages can be repolarized to the M1-type by replacing IL-4 with IFN-γ+LPS. After PMA treatment (100nM, for 24 hours), cells were treated with IL-4 (20ng/ml) for 2 days and changed to fresh medium for 2 days (M2); M2→M1:IL-4 treatment for 2 days and then change to IFN-γ (20ng/ml) + LPS (10ng/ml) for another 2 days; M1: IFN-γ + LPS for 2 days and then change to fresh medium for 2 days; "M1→M2": IFN-γ + LPS for 2 days and then IL-4 for 2 days. D) After priming with PMA, endogenous MRC1 proteins were further induced with IL-4 (20ng/ml) treatment, while the addition of LPS (10ng/ml) and IFN-γ (20ng/ml) inhibited MRC1 protein levels. Densitometric band values are indicated. **: $p<0.01$. ***: $p<0.001$

Figure S2. **Concentrations of doxycycline that are sufficient to inhibit M2-type polarization of macrophages do not affect cell viability.**
BMDM cells isolated from 3-4 months old male C57Bl/6j mice were pretreated with Dox overnight and subsequently treated with Dox +/- IL-4 (20ng/ml) in DMEM+1% FBS+M-CSF for 3 days. Cells were stained with Live/Dead cell viability kit (Invitrogen) and assessed by a FACSCanto flow cytometer.

SUPPLEMENTAL TABLES

Table S1. Primers used to amplify genomic DNA containing the MRC1 promoter.

MRC1 2.5 kb (between -2383 to +116 bp), forward	ggggtaccTAGGCTACGCTGAGCCGT
MRC1 1.5 kb (between -1383 to +116 bp), forward	ggggtaccTTCCCTCCGGTCAGGATA
MRC1 1.0 kb (between -883 to +116 bp), forward	ggggtaccCCTGACTCACTGTAACTT
MRC1, reverse	ccgctcgagGGCCCAGGGTTTATCCTT

Table S2. Semiquantitative RT-PCR primers used.

Human		
h36B4	for	GCAATGTTGCCAGTGTCTGT
	rev	GCCTTGACCTTTTCAGCAAG
hCD68	for	GCTACATGGCGGTGGAGTACAA
	rev	ATGATGAGAGGCAGCAAGATGG
hMRC1	for	TGGTTTCCATTGAAAGTGCTGC
	rev	TTCCTGGGCTTGACTGACTGTTA
hCXCL9	for	TTGGGCATCATCTTGCTGGTTCT
	rev	TGGCTGACCTGTTTCTCCCACTT
hCox-2	for	CCGGGTACAATCGCACTTA
	rev	GGCGCTCAGCCATACAG
hCD11b	for	CAGACAGGAAGTAGCAGCTCCT
	rev	CTGGTCATGTTGATGAAGGTGCT
Mouse		
m36B4	for	TCACTGTGCCAGCTCAGAAC
	rev	AATTTCAATGGTGCCTCTGG
mCD115	for	ATCTGTTCCCGTCCTCACAG
	reverse	ACTGCCATTGCTCACACATC
mF4/80	for	GCCTATTATCTATACCCTCCAGCACATC
	rev	TCCATCTCCCATCCTCCACATCAG
mCD68	for	AGCTGCCTGACAAGGGACACT
	rev	AGGAGGACCAGGCCAATGAT
mCox-2	for	TGAGTACCGCAAACGCTTCTC
	rev	TGGACGAGGTTTTTCCACCAG
miNOS	for	AACGGAGAACGTTGGATTTG
	rev	CAGCACAAGGGGTTTTCTTC
mCxcl9	for	TTTTGGGCATCATCTTCCTGG
	rev	GAGGTCTTTGAGGGATTTGTAGTGG
mArg1	for	TGAGAGACCACGGGGACCTG
	rev	GCACCACACTGACTCTTCCATTC
mIL-1Ra	for	TTACAAGGACCAAATATCAAACTAGAAG
	rev	GGATGCCCAAGAACACACTATG
mFizz1	for	TCCCAGTGAATACTGATGAGA
	rev	CCACTCTGGATCTCCCAAGA
mCcl17	for	CCCATGAAGACCTTCACCTC
	rev	CATCCCTGGAACACTCCACT
mCcl22	for	TGGCTCTCGTCCTTCTTGCT
	rev	AGGCTTGCGGCAGGATTT
mCD11b	for	AAACCACAGTCCCGCAGAGA
	rev	CGTGTTCACCAGCTGGCTTA
mIL-1b	for	TGATGAGAHCATCCAGCTTC
	rev	CATGAGTCACAGAGGATGGG

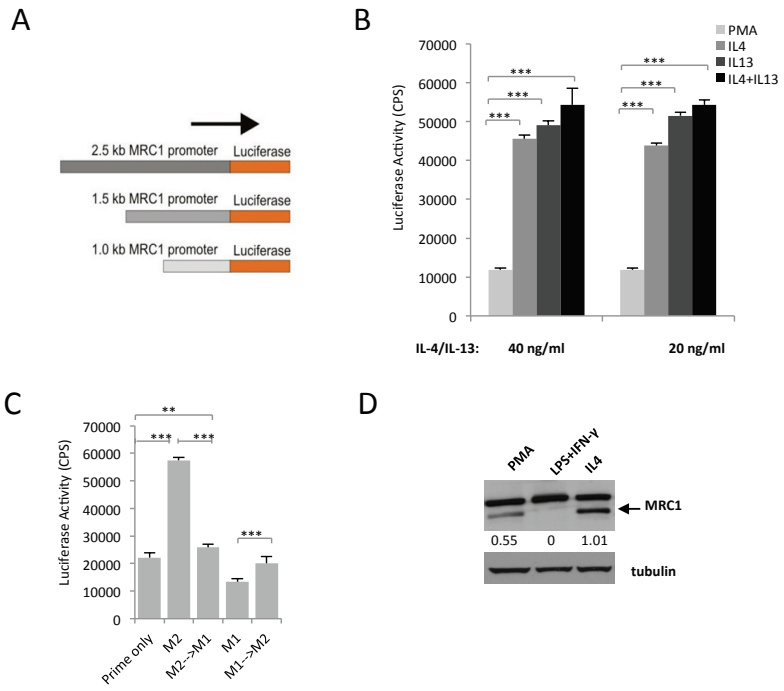
A
2.5 kb MRC1 promoter
Luciferase
1.5 kb MRC1 promoter
Luciferase
1.0 kb MRC1 promoter
Luciferase
B
PMA
IL4
IL13
IL4+IL13
Luciferase Activity (CPS)
70000
60000
50000
40000
30000
20000
10000
0
***
IL-4/IL-13:
40 ng/ml
20 ng/ml
C
Luciferase Activity (CPS)
70000
60000
50000
40000
30000
20000
10000
0
**
***
***
***
Prime only
M2
M2->M1
M1
M1->M2
D
PMA
LPS+IFN-γ
IL4
MRC1
0.55
0
1.01
tubulin

Figure S1

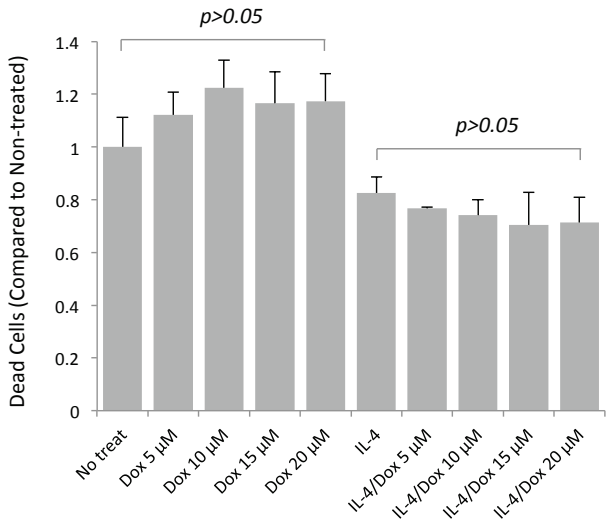
p>0.05
p>0.05
Dead Cells (Compared to Non-treated)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
No treat
Dox 5 µM
Dox 10 µM
Dox 15 µM
Dox 20 µM
IL-4
IL-4/Dox 5 µM
IL-4/Dox 10 µM
IL-4/Dox 15 µM
IL-4/Dox 20 µM

Figure S2