

**Table S1.** Sequences of primers for PCR

Species	Target gene	Sequence (5'-3')
-	neo*	F: GCTTGGGTGGAGAGGCTATTC R: CAAGGTGAGATGACAGGAGATC
Mouse	hmox-1*	F: GTACACTGACTGTGGGTGGGGGAG R: AGGGCCGAGTAGATATGGTAC
Mouse	hmox-1	F: CACGCATATACCCGCTACCT R: CCAGAGTGTTCATTCGAGCA
Mouse	iNOS	F: CACCTTGGAGTTCACCCAGT R: ACCACTCGTACTTGGGATGC
Mouse	TNF- $\alpha$	F: CTGGGACAGTGACCTGGACT R: GCACCTCAGGGAAGAGTCTG
Mouse	IL-1 $\beta$	F: ACCTGCTGGTGTGTGACGTTCC R: GGTCCGACAGCACGAGGCT
Mouse	IL-12p40	F: GAAAGACCCTGACCATCACT R: CCTTCTCTGCAGACAGAGAC
Mouse	CXCL10	F: GGTCTGAGTGGGACTCAAGG R: GTGGCAATGATCTCAACACG
Mouse	YM1	F: ACTTTGATGGCCTCAACCTG R: AATGATTCCTGCTCCTGTGG
Mouse	RELM- $\alpha$	F: GCTGATGGTCCCAGTGAATA R: CAGTAGCAGTCATCCCAGCA
Mouse	CCL17	F: CCCATGAAGACCTTCACCTC R: CATCCCTGGAACACTCCACT
Mouse	DCIR	F: TCCCCTGCTACTTGGTTCC R: GCCTGTATCCCACAACCCTA
Mouse	STAB-1	F: TATGTGCCGACCAGGTATGA R: CTGCTCTTAACCGCAGGAAC
Mouse	IL-27R- $\alpha$	F: CCTCAGTTTGGGGATTGAGA R: TTTGACTGCTCACGTTCCCTG
Mouse	DECTIN-1	F: GGAATCCTGTGCTTTGTGGT R: ATTCTGTGGGCTTGTGGTTC
Mouse	CD209	F: CTGGGAGAGGAAGACTGTGC R: CTTGCTAGGGCAGGAAGTTG
Mouse	IL-10	F: CCAAGCCTTATCGGAAATGA R: TCACTCTTCACCTGCTCCAC
Mouse	SPHK1	F: TCCTGGAGGAGGCAGAGATA R: GCTACACAGGGGTTTCTGGA
Mouse	LIGHT	F: CTGCATCAACGTCTTGGAGA R: GATACGTCAAGCCCCTCAAG
Mouse	CCL1	F: GGATGTTGACAGCAAGAGCA R: TAGTTGAGGCGCAGCTTTCT
Mouse	IFN- $\gamma$	F: GCTTTGCAGCTCTTCCTCAT R: GTCACCATCCTTTTGCCAGT
Mouse	IL-17	F: TCCAGAAGGCCCTCAGACTA R: AGGACCAGGATCTCTTGCTG
Mouse	$\beta$ -actin	F: CCAGAGCAAGAGAGGTATCC R: CTGTGGTGGTGAAGCTGTAG
Mouse	18S rRNA	F: GGACCAGAGCGAAAGCATTGCC R: TCAATCTCGGGTGGCTGAACGC
<i>H. pylori</i>	ureA	F: TGTTGGCGACAGACCGTTCAAATC R: GCTGTCCCGCTCGCAATGTCTAAGC

\*Primers for genotyping of mice.

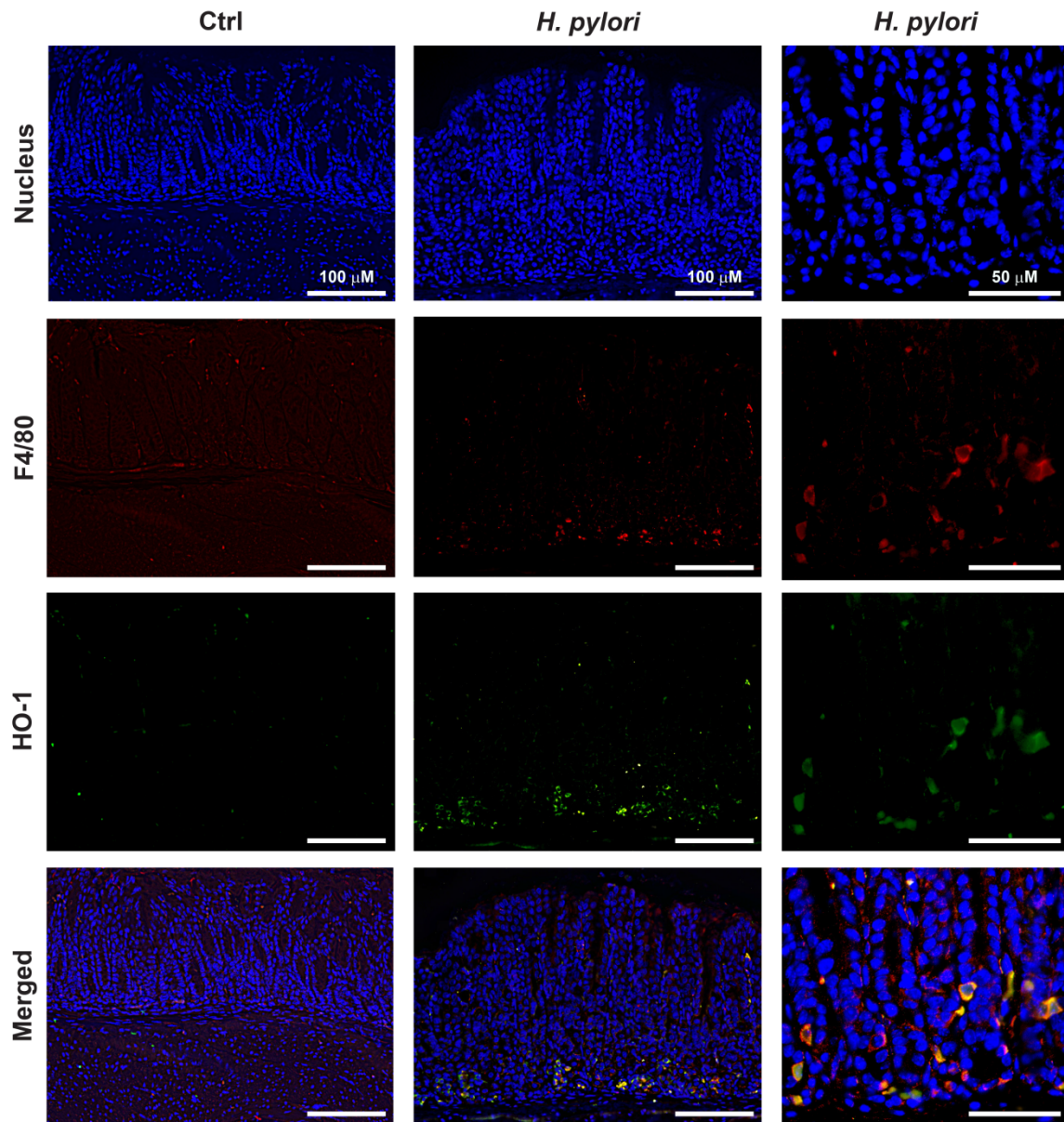
**Table S2. List of antibodies**

Antibody	Dilution	Application	Source
Rabbit polyclonal anti-human/mouse HO-1	1:1000	WB*	Stressgen
	1:100	IF <sup>†</sup>	
	1:250	FL <sup>‡</sup>	
Rabbit polyclonal anti-mouse iNOS	1:100	IF	Pierce
Rabbit polyclonal anti-mouse p-p38-Thr180/Tyr182	1:2000	WB	Invitrogen
Mouse monoclonal anti-mouse p38	1:2000	WB	Santa Cruz
Rabbit polyclonal anti-human/mouse ERK1/2	1:1000	WB	Invitrogen
Rabbit polyclonal anti-mouse NRF-2	1:1000	WB	Abcam
Mouse monoclonal anti-p-Tyr (PY99)	1:1000	WB	Santa Cruz
Rat polyclonal anti-F4/80, Alexa 488-conjugated	1:250	FL	Invitrogen
Rat polyclonal anti-F4/80	1:50	IF	Invitrogen
Rabbit polyclonal anti-CagA	1:10000	WB	Austral Biological
Mouse monoclonal anti-human/mouse $\beta$ -actin	1:10000	WB	Sigma
Goat anti-rabbit IgG, HRP-labeled	1:5000	WB	Sigma
Goat anti-mouse IgG, HRP-labeled	1:5000	WB	Sigma
Rabbit anti-rat IgG, TRITC-conjugated	1:100	IF	Sigma
Donkey anti-rabbit IgG, DyLight 488-conjugated	1:100	IF	Jackson ImmunoResearch
Goat anti-rabbit IgG, APC-conjugated	1:200	FL	Jackson ImmunoResearch

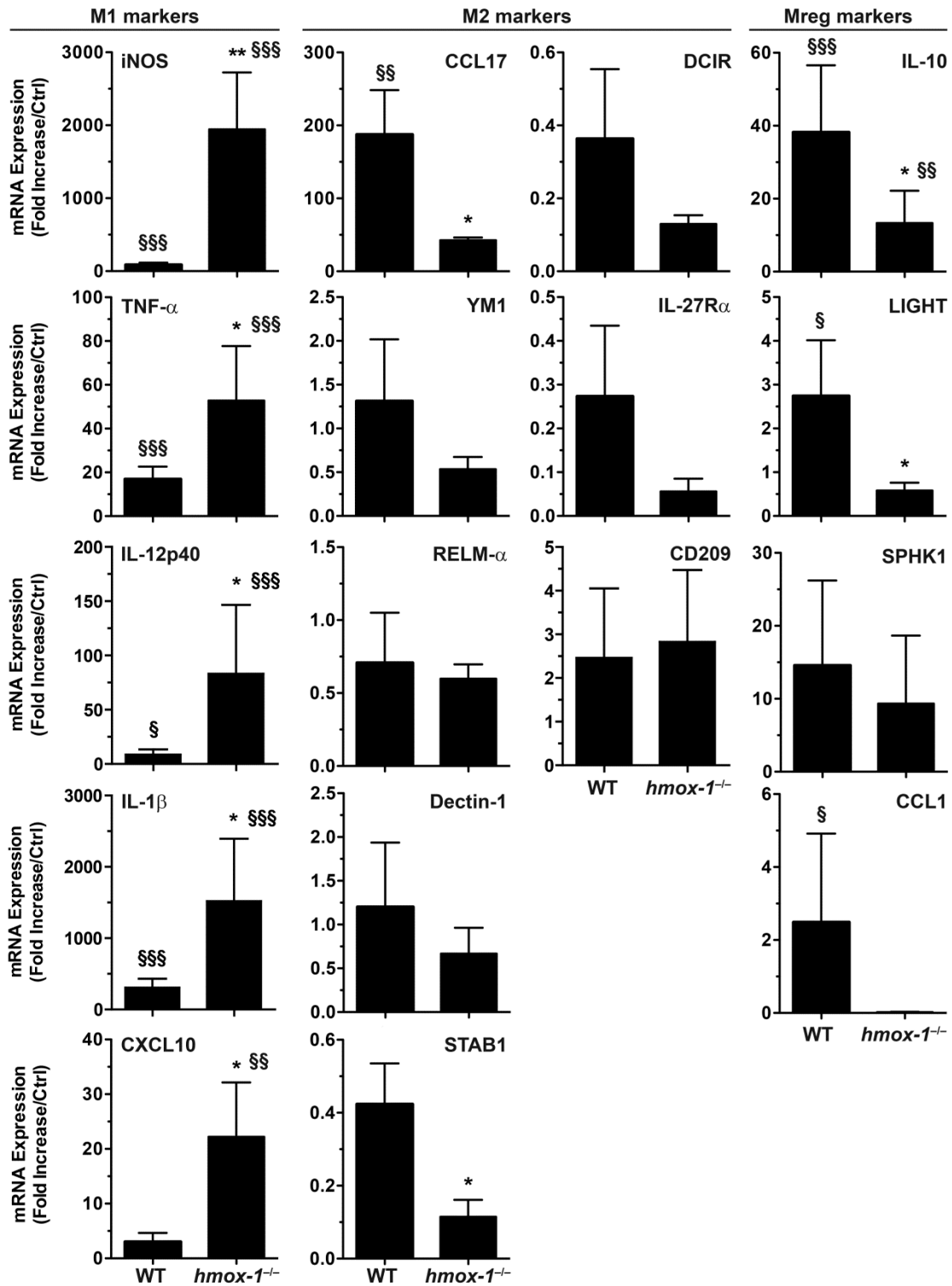
\*WB, Western Blot

<sup>†</sup>IF, Immunofluorescence

<sup>‡</sup>FL, Flow cytometry



**FIGURE S1.** Immunofluorescence for nucleus (DAPI; blue), F4/80 (TRITC; red), and HO-1 (DyLight 488; green) is shown for uninfected control (Ctrl) mice and for mice infected with *H. pylori* PMSS1. Data are representative of 4-6 mice for each group.



**FIGURE S2.** Expression of the genes encoding markers of the M1, M2, and Mreg populations in peritoneal macrophages from WT or *hmox-1*<sup>-/-</sup> mice infected with *H. pylori* 60190 for 24 h; n = 6 mice per genotype. \**P* < 0.05, \*\**P* < 0.01 vs. infected WT macrophages; §*P* < 0.05, §§*P* < 0.01, §§§*P* < 0.001 vs. uninfected cells.