	Thromboxane B_2 (ng/ml)					
	WT	PGHS1 ^{Neo/Neo}	PGHS1 KO	ASA/WT^		
Mouse Plasma	$8.61 \pm 0.05^*$	0.28 ± 0.01	0.12 ± 0.01	0.33±0.04		
[AA]						
0.5 mM	$340 \pm 9.2^*$	9.9 ± 1.4	0.5 ± 0.06	ND		
1.0 mM	$356 \pm 2.6*$	10.4 ± 0.7	0.7 ± 0.01	ND		
2.0 mM	$412 \pm 3.1^*$	11.7 ± 1.7	0.7 ± 0.03	ND		
3.0 mM	$489 \pm 3.9^*$	13.0 ± 1.4	1.4 ± 0.02	ND		

Supplemental Table 1 Plasma and AA-stimulated platelet TxB₂ measurements

The heparinized blood samples were collected from the inferior vena cava. Plasma TxB₂ levels were measured by LC/MS/MS. Washed platelets $(2 \propto 10^8/\text{ml})$ were incubated with various concentrations of AA at 37 °C for 8 min and the induced TxB₂ production from each group was quantified. Values are presented as mean ± SEM, n = 3-4 mice/group. ^, Low dose aspirin was supplied to wild type mice by drinking (30 mg/L) for one week. * P < 0.0001 as compared with PGHS1^{Neo/Neo} and PGHS1 KO mice. ND, not determined.

Supplemental Table 2 Selective inhibition of PGHS1 by SC-560 during late pregnancy delays full-time parturition in PGHS1^{Neo/Neo} mice

	mitte		
Treatment	Gestation length (day)	Survival for 24 h (%)	
Vehicle/PGHS1 ^{Neo/Neo}	$19.2 \pm 0.2 \ (n = 6)$	91.4 % (43/47)	
SC-560/PGHS1 ^{Neo/Neo}	$21.5 \pm 0.5 \ (n = 7)^{\wedge}$	53.7 % (29/54)*	

SC-560 (50 mg/kg oral gavage) was administered twice a day on gestation days 16 to 19. Gestation length is shown as mean \pm SEM. ^, Significantly different from gestation length of mice treated with vehicle, P < 0.001. * Significantly different from vehicle treatment, P < 0.05.



Supplemental Figure 1 legend

Recovery of PGHS1 expression in EIIa Cre transgenic PGHS1^{loxP/loxP} mice. (A) Genotype analysis of PGHS1^{loxP/loxP} mice. The endogenous PGHS1 allele (WT) produces a 317 bp band. If the Neo gene is excised in vivo, a 472 bp product is amplified that contains one intact loxP site within the intron. (B) Western blot analysis of peritoneal macrophage protein from PGHS1^{loxP} mice. (C) PGE₂ production by peritoneal macrophages from PGHS1^{loxP/loxP} mice. Both PGHS1 protein expression and PGE₂ products from PGHS1^{loxP/loxP} mice were comparable to those from WT mice.