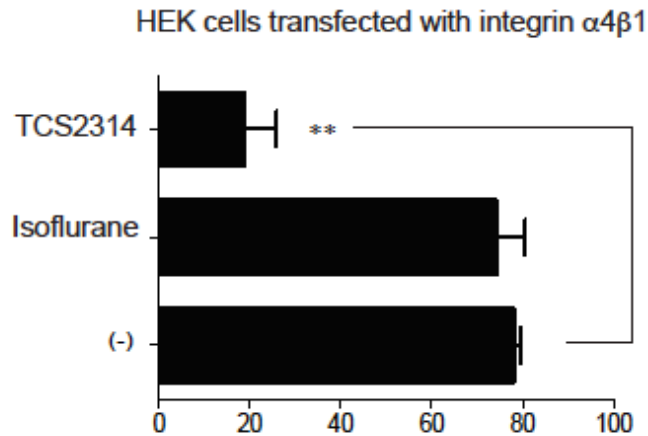


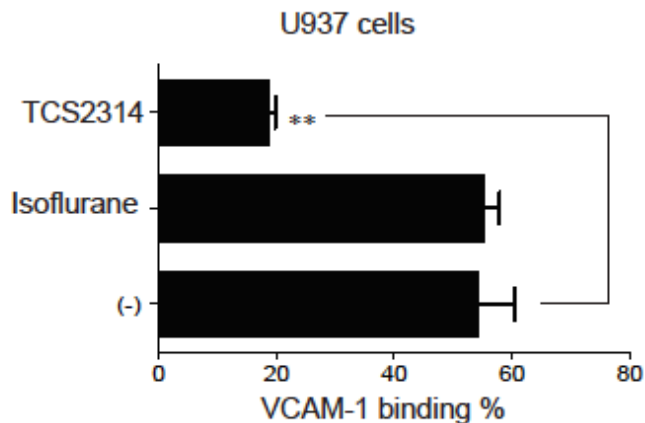
**Supplemental Figure 1. The changes in peripheral leukocyte counts after CLP and isoflurane exposure**

The number of leukocytes was counted as described in the Methods. The data represent mean  $\pm$  S.D. of 4 mice. Statistical analysis was performed using two-way analysis of variance with Bonferroni *post hoc* analysis. No statistical significance was observed post-CLP (n.s.= not significant).

(A)



(B)



### Supplemental Figure 2. The effect of isoflurane on integrin $\alpha_4\beta_1$

The binding of  $\alpha_4\beta_1$  to its ligand VCAM-1 with or without isoflurane was tested in HEK cells with transient expression of  $\alpha_4\beta_1$  (A) and U937 cells (B). In U937 cells, the endogenous expression of  $\alpha_4\beta_1$  was confirmed with flow cytometry (data not shown). As a positive control, 10  $\mu$ M of  $\alpha_4\beta_1$  inhibitor TCS2314 was used. VCAM1 binding % was shown as mean  $\pm$  S.D. of quadruplicates. Statistical analysis was performed using one-way analysis of variance with Bonferonni *post hoc* analysis. \* and \*\* denote  $p < 0.05$  and  $p < 0.01$ , respectively.

**Supplemental Table 1. Total leukocyte and neutrophil counts in peripheral blood**

	Total leukocytes (x 10 <sup>3</sup> /μL)	Neutrophils (x 10 <sup>3</sup> /μL)
WT (n= 13)	8.03 +/- 3.31	1.12 +/- 0.46
LFA-1 KO (n=9)	15.48 +/- 4.02**	4.67 +/- 1.66**
Mac-1 KO (n=8)	8.27 +/- 5.41	1.46 +/- 0.92
ICAM-1 KO (n=4)	9.72 +/- 1.29	1.55 +/- 0.36
BLT1 KO (n= 12)	13.41 +/- 3.57*	4.47 +/- 2.74**
CXCR2 KO (n= 10)	11.61 +/- 5.29	2.98 +/- 1.67

Statistical analysis was performed using one-way analysis of variance with Bonferroni *post hoc* analysis. \* denotes P < 0.05 versus WT.