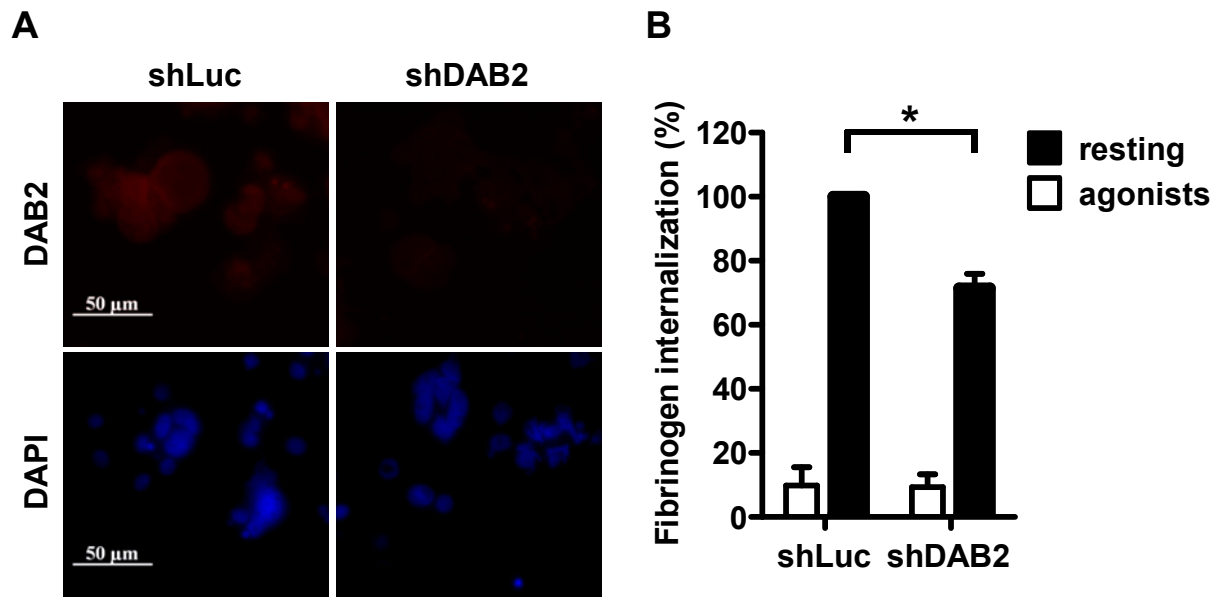
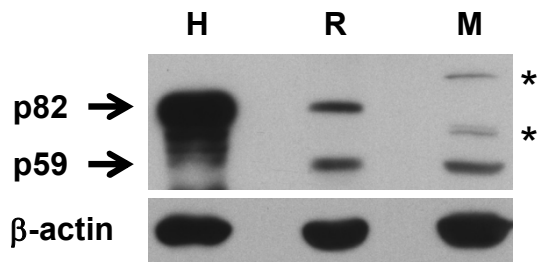


**Supplementary Figure I.** Dab2 is involved in the regulation of low concentrations thrombin-stimulated Akt-Ser473 phosphorylation. The washed platelets from *fl/fl* and *-/-* mice were stimulated by thrombin, collagen, U46619, and ADP at the indicated concentrations. The platelets lysates were analyzed by Western blot using anti-p-Akt (Ser473) antibody. The expression of β-actin was used for the control of equal protein loading. Representative blots of 3 independent experiments are shown.



**Supplementary Figure II.** Effect of lentivirus-mediated Dab2 knockdown on rat primary megakaryocyte fibrinogen uptake. **A**, The shLuc or shDAB2 lentivirus-infected rat bone marrow cell were cultured in the presence of TPO (50 ng/ml) for 3 days. Immunofluorescence staining of Dab2 was performed using the anti-Dab2 antibody followed by the Alexa Fluor 546-conjugated, goat-anti-rabbit secondary antibody. After counterstained by 4', 6-diamidino-2-phenylindole (DAPI, blue), the fluorescent images were obtained using the fluorescent microscopy (length of bar = 50  $\mu$ m). **B**, The shLuc or shDAB2 lentivirus-infected rat bone marrow cells on day 3 of culture were sedimented by gravity. The cells were then untreated or stimulated with the agonists containing ADP (12.5  $\mu$ M)/thrombin (0.0125 U/ml)/epinephrine (12.5  $\mu$ M) in the presence of Alexa Fluor 488-fibrinogen (25  $\mu$ g/ml). After staining with propidium iodide (1 mg/ml), fibrinogen internalization was determined by flow cytometry. The amount of fibrinogen internalization in the agonists-treated control cells (shLuc) was arbitrarily set as 100%. The data represent the mean  $\pm$  SEM of 3 independent experiments. \*,  $p < 0.05$ .



**Supplementary Figure III.** Dab2 expression in different species. The expression of Dab2 in human (H), rat (R) and mouse (M) platelets was analyzed by Western blot using anti-Dab2 antibody. The expression of  $\beta$ -actin was used for the control of equal protein loading. The data represent of 3 independent experiments. The non-specific bands (marked as \*) in the mouse platelets do not always appear in each preparation of platelet lysates.

## Supplementary Table

**Table I. The complete blood count of Dab2<sup>fl/fl</sup> and Dab2<sup>-/-</sup> mice**

Parameters	Unit	Dab2 <sup>fl/fl</sup> (n=6)	Dab2 <sup>-/-</sup> (n=8)
<b>Leukocytes</b>			
White blood cells	(K/ $\mu$ L)	8.2 $\pm$ 1.2	6.4 $\pm$ 0.9
Neutrophils	(K/ $\mu$ L)	1.2 $\pm$ 0.4	1.0 $\pm$ 0.3
Lymphocytes	(K/ $\mu$ L)	6.4 $\pm$ 0.8	5.2 $\pm$ 0.6
Monocytes	(K/ $\mu$ L)	0.4 $\pm$ 0.1	0.2 $\pm$ 0.1
Eosinophils	(K/ $\mu$ L)	0.0 $\pm$ 0.0	0.0 $\pm$ 0.0
Basophils	(K/ $\mu$ L)	0.0 $\pm$ 0.0	0.0 $\pm$ 0.0
<b>Erythrocytes</b>			
Red blood cells	(M/ $\mu$ L)	8.7 $\pm$ 0.2	9.0 $\pm$ 0.4
Hemoglobin	(g/dL)	11.0 $\pm$ 0.3	10.5 $\pm$ 0.5
Hematocrit	(%)	48.3 $\pm$ 1.1	49.2 $\pm$ 1.1
Mean corpuscular values	(fL)	55.8 $\pm$ 1.0	55.3 $\pm$ 1.7
Mean corpuscular hemoglobin	(pg)	6.4 $\pm$ 2.8	6.3 $\pm$ 2.3
Mean corpuscular hemoglobin concentration	(g/dL)	11.2 $\pm$ 4.9	10.8 $\pm$ 3.9
RBC distribution width	(%)	17.3 $\pm$ 0.6	19.2 $\pm$ 0.9
<b>Thrombocytes</b>			
Platelets	(K/ $\mu$ L)	910 $\pm$ 46	872 $\pm$ 40
Mean platelet volume	(fL)	4.4 $\pm$ 0.1	4.2 $\pm$ 0.1

Unpaired Student's *t* test was used for all parameters analyzed. The data were presented as mean  $\pm$  standard error of the mean (SEM). None of the differences between Dab2<sup>fl/fl</sup> and Dab2<sup>-/-</sup> mice was statistically significant.