Supplemental information

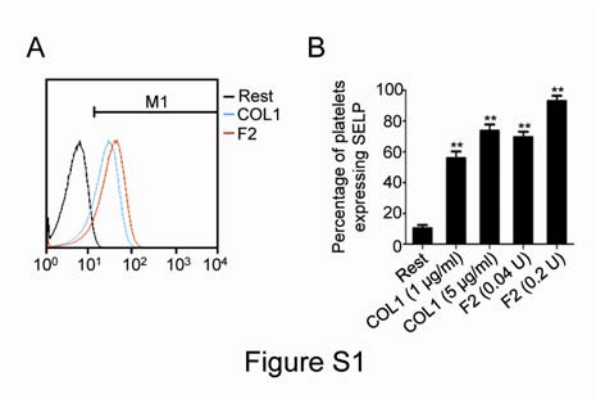

Figure S1

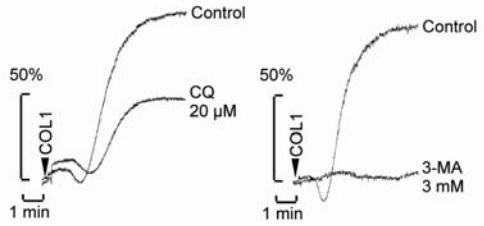

Figure S2

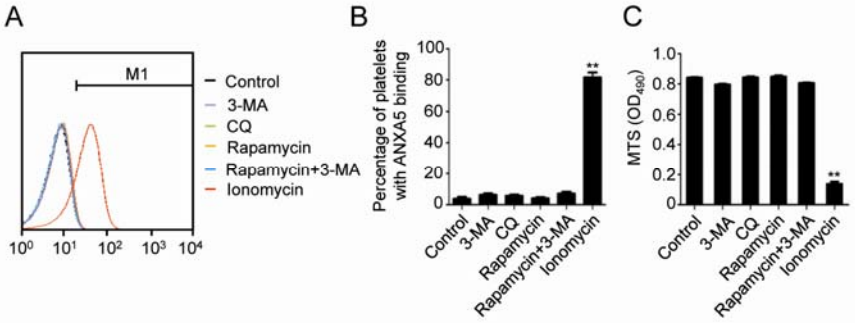
A
M1
Control
3-MA
CQ
Rapamycin
Rapamycin+3-MA
Ionomycin
10^0 10^1 10^2 10^3 10^4
B
Percentage of platelets with ANXA5 binding
100
80
60
40
20
0
**
Control
3-MA
CQ
Rapamycin
Rapamycin+3-MA
Ionomycin
C
MTS (OD_{490})
1.0
0.8
0.6
0.4
0.2
0
**
Control
3-MA
CQ
Rapamycin
Rapamycin+3-MA
Ionomycin

Figure S3

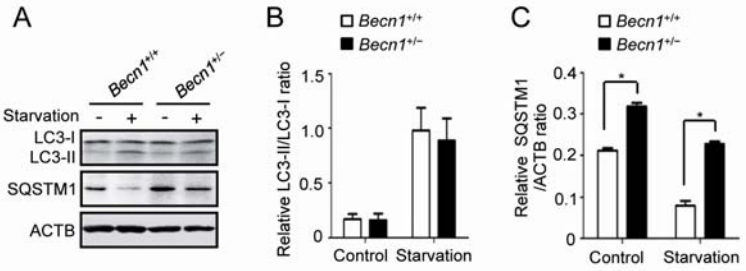
A
Becn1+/+
Becn1+/−
Starvation - + - +
LC3-I
LC3-II
SQSTM1
ACTB
B
Becn1+/+
Becn1+/−
Relative LC3-II/LC3-I ratio
1.5
1.0
0.5
0
Control
Starvation
C
Becn1+/+
Becn1+/−
Relative SQSTM1 /ACTB ratio
0.4
0.3
0.2
0.1
0
*
*
Control
Starvation

Figure S4

Figure legends

Figure S1. Expression of SELP [selectin P (granule membrane protein 140kDa, antigen CD62)] on platelet surface. (**A**) Human platelets treated with COL1 (1 μg/ml) or F2/thrombin (0.04 U) for 10 min were incubated with FITC-conjugatedanti-CD62P and analyzed by flow cytometry. Representative histogram was shown. (**B**) Quantification of SELP expression on the surface of platelet. Results are shown as mean ± SEM percentage of platelets with positive SELP staining from 3 independent experiments. $^{**}P<0.01$.

Figure S2. Blocking autophagic degradation inhibits platelet aggregation in PRP. Normal human PRP (300×10^6 platelets/ml) was pretreated with 3-MA or CQ at the indicated concentrations for 1.5 h. Then COL1 (1 μg/ml) was added and the aggregation was recorded using an aggregometer.

Figure S3. Effect of autophagy disruption on platelet viability. (**A**) Human platelets were treated with 3 mM 3-MA, 20 μM CQ or 3 μM ionomycin for 1.5 h, 200 nM rapamycin with or without 3-MA for 2 h. Then the platelets were incubated with FITC-conjugated ANXA5 and analyzed by flow cytometry. Representative histogram was shown. (**B**) Quantification of ANXA5-positive platelets. Results are shown as mean ± SEM from 3 independent experiments. $^{**}P<0.01$. (**C**) Platelets were treated as in (**A**) and tested by MTS assay. Results are shown as mean ± SEM from 3 independent experiments. $^{**}P<0.01$.

Figure S4. Impaired autophagy in *Becn1*-deficient platelets. (**A**) Fresh platelets isolated form $Becn1^{+/+}$ or $Becn1^{+/-}$ mice were starved and subjected to western blot

analysis with anti-SQSTM1 and anti-LC3 antibodies. (**B and C**) Statistical analysis of LC3-II/LC3-I ratio (**B**) and SQSTM1/ACTB ratio (**C**). Results are shown as mean ± SEM from 3 independent experiments. *P<0.05.