Deficiency of diacylglycerol Kinaseζ promotes Beclin1-mediated autophagy *via* the mTOR/TFEB signaling pathway: Relevance to maladaptive cardiac hypertrophy

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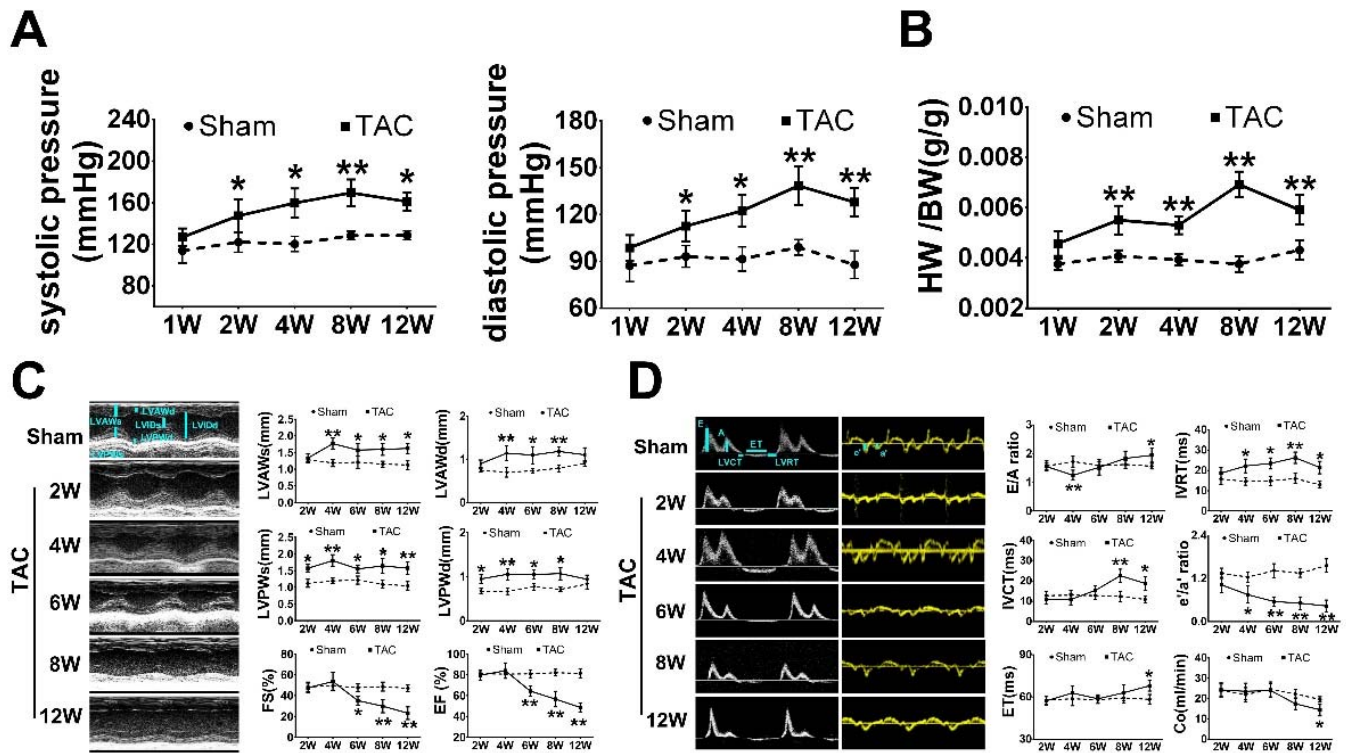
Figure S. Cardiac dysfunction induced by transverse aortic constriction (TAC).

Cardiac hypertrophy was induced by ligation of the transverse aortic arch between the innominate artery and the left common carotid artery of mice. (A) Blood pressure was measured by using a small animal non-invasive blood pressure system at indicated time point after surgery (ANOVA for repeated measurements, n=6-8, *P< 0.05 or **P< 0.01 *vs.* sham). (B) The ratio of heart weight to body weight (HW/BW) was analyzed at indicated time point after surgery in each experimental group (Student t test, n=6-8, **P< 0.01 *vs.* sham). (C) Representative M-mode echocardiograms and the analyzed results of cardiac function obtained from mice in each experimental group (ANOVA for repeated measurements, n=6-8, *P< 0.05 or **P< 0.01 *vs.* sham). (D) Representative transmitral flow and tissue doppler echocardiograms and the analyzed results of cardiac

function obtained from mice in each experimental group (ANOVA for repeated measurements, n=6-8, *P< 0.05 or **P< 0.01 *vs.* sham).